

2016-17
3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years (15)

3.4.5.1: Number of research papers in the Journals notified on UGC website during the last five years

Title of paper	Name of the author/s	nt of the	Name of journal	Year of publica	ISSN number	in UGC enlistment of
Loss of Junctional Adhesion Molecule A Promotes Severe Steatohepatitis in Mice on a Diet High in Saturated Fat, Fructose, and Cholesterol	Rahman K, Desai C, Iyer SS, Thorn NE, Kumar P, Liu Y, Smith T, Neish AS, Li H, Tan S, Wu P, Liu X, Yu Y, Farris AB, Nusrat A, Parkos CA, Anania FA.	PDPIAS	Gastroenterology	1-Oct-16	0016-5085	https://www.scopus.com/sourceid/21100205706
The microenvironment of injured murine gut elicits a local pro-restitutive microbiota	Alam A, Leoni G, Quiros M, Wu H, Desai C, Nishio H, Jones RM, Nusrat A and Neish AS.	PDPIAS	Nature Microbiology	27-Jan-16		https://www.ugc-journal-list.website/journal/175/nature-microbiology
Idiosyncrasy of local fungal isolate Hypocrea rufa strain P2: Plant growth promotion and mycoparasitism	Parth Thakor, Dweipayan Goswami, Janki Thakker, Pinakin Dhandhukia	Biological Sciences, PDPIAS	JMBFS	6/1/2016	1338-5178	https://www.scopus.com/sourceid/21100823448
Portraying mechanics of plant growth promoting rhizobacteria (PGPR): A review	Dweipayan Goswami, Pinakin Dhandhukia, Janki Thakker,	Biological Sciences, PDPIAS	Cogent Food & Agriculture	1-19-2016	2331-1932	
Mechanism of acid corrosion inhibition using magnetic nanofluid	Kinnari Parekh, Smita Jauhari and R V Upadhyay	KRADLE	Advances in Natural Sciences: Nanoscience and Nanotechnology	15-Oct-16	ISSN: 2043-6262	https://www.scopus.com/sourceid/21100286862
Prevention of hot spot temperature in a distribution transformer using magnetic fluid as a coolant	Jaykumar Patel, Kinnari Parekh, R.V. Upadhyay	KRADLE	International Journal of Thermal Sciences	1-May-16	ISSN: 1290-0729	https://www.scopus.com/sourceid/13761

Influence of crystallite size on the magnetic properties of Fe ₃ O ₄ nanoparticles	Sneha Upadhyay, Kinnari Parekh, Brajesh Pandey	KRADLE	Journal of Alloys and Compounds	5-Sep-16	ISSN: 0925-8388	https://www.scopus.com/sourceid/12325
Temperature dependence quasi-static measurements on a magnetorheological fluid having plate like iron particles as dispersed phase	Zarana Laherishethand Ramesh V Upadhyay	PDPIAS	Journal of Intelligent Material Systems and Structures	16-Jun-20	ISSN: 1045-389X	https://www.scopus.com/sourceid/21157
Spectroscopy and flavor changing decays of B, Bs mesons in a Dirac formalism	Manan Shah, Bhavin Patel and P. C. Vinodkumar	PDPIAS	PHYSICAL REVIEW D	16-May-20	ISSN: 2470-0029	https://www.scopus.com/sourceid/21100779241
D meson spectroscopy and their decay properties using Martin potential in a relativistic Dirac formalism,	Manan Shah, Bhavin Patel and P. C. Vinodkumar	PDPIAS	The European Physical Journal C	22-Jan-16	ISSN: 1434-6052	
Functions of bounded fractional differential variation-A new concept	Jyotindra C. Prajapati and Krunal B. Kachhia	PDPIAS	Georgian Mathematical Journal	21-Jul-16	1572-9176	https://www.scopus.com/sourceid/6100152706
Some Integral Transforms and Fractional Integral Formulas for the Extended Hypergeometric Functions	Praveen Agarwal, Junesang Choi, Krunal B. Kachhia, Jyotindra C. Prajapati and H. Zhou	PDPIAS	Communication of Korean Mathematical Society	26-Jul-16	1225-1763	
Some Integral Transforms Involving Extended Generalized Gauss Hypergeometric Functions	Junesang Choi, Krunal B. Kachhia, Jyotindra C. Prajapati and Sunil Dutt Purohit	PDPIAS	Communication of Korean Mathematical Society	10-31-2016	1225-1763	
On Generalized Fractional Kinetic Equations Involving Generalized Lommel-Wright Functions	Krunal B. Kachhia and Jyotindra C. Prajapati	PDPIAS	Alexandria Engineering Journal	18-May-16	1110-0168	https://www.scopus.com/sourceid/13907
Fractional Calculus Approach to Study Temperature Distribution Within a Spinning Satellite	Jyotindra C. Prajapati, Krunal B. Kachhia and Shiv Prasad Kosta	PDPIAS	Alexandria Engineering Journal	1-Sep-16	1110-0168	https://www.scopus.com/sourceid/13907

Electrospun Nanofibers of Poly(NPEMA-co.-CMPMA): Used as Heavy Metal Ion Remover and Water Sanitizer	Mehdihasan I. Shekh, Dijit M. Patel, Kaushal P. Patel, Rajni M. Patel	PDPIAS	Fibers and Polymers	12-Feb-17	12299197	https://www.scopus.com/sourceid/144862
Bioproduction of d-Tagatose from d-Galactose Using Phosphoglucose Isomerase from Pseudomonas aeruginosa PAO1	Manisha J Patel, Arti T Patel, Rekha Akhani, Samir Dedania, Darshan H Patel	PDPIAS	Applied Biochemistry and Biotechnology	27-Feb-16	2732289	https://www.scopus.com/sourceid/110291
Biochemical Leaning of Phosphoglucose Isomerase is More Towards Gluconeogenesis in Pseudomonas aeruginosa PAO1	Arti T. Patel, Rekha C. Akhani, Manisha J. Patel, Samir R. Dedania and Darshan H.	PDPIAS	Asian Journal Of Biochemistry	2016	1815-9931	https://www.scopus.com/sourceid/11300153309
Enhanced catalysis of l-asparaginase from Bacillus licheniformis by a rational redesign	Ankit P Sudhir, Viplove V Agarwaal, Bhaumik R Dave, Darshan H Patel, RB Subramanian	PDPIAS	Enzyme and Microbial Technology	1-May-16	0141-0229	https://www.scopus.com/sourceid/15609
Direct-Coated Photoconducting Nanocrystalline PbS Thin Films with Tunable Band Gap	Dhaval Vankhade, Anjana Kothari, T. K. Chaudhuri	KRADLE	Journal of Electronic Materials	19-Feb-16	0361-5235	https://www.scopus.com/sourceid/26620
Optical and spectroscopic investigation of tunable size PbS nanocrystals embedded in insulating PVA matrix	Mitesh H. Patel, Tapas K. Chaudhuri, T. Shripathi, U. Deshpande, Vaibhav K. Patel	KRADLE	Journal of Materials Science: Materials in Electronics	23-Jul-16	0957-4522	https://www.scopus.com/sourceid/21177
Dip-coated PbS/PVP nanocomposite films with tunable band gap	Mitesh H. Patel, Tapas K. Chaudhuri, Vaibhav K. Patel, T. Shripathi, U. Deshpande and N. P. Lalla	KRADLE	RSC Advances	16-Jan-17	2046-2069	https://www.scopus.com/sourceid/21100199840
Fabrication of novel anti-cancer polyoxometalate [CoW ₁₁ O ₃₉ (CpTi)] ⁷⁻ - Chitosan nano-composite, Its toxicity reduction and sustained release	V. M. Pandya and S. A. Joshi	KRADLE	Asian Journal of Pharmaceutical & Clinical Research		2455-3891	

Novel gelatin-polyoxometalate based self assembled pH responsive hydrogels: formulation and in vitro characterization	Azizullah, N. ur-Rehman, W. Liu, A. Haider, U. Kortz, M. Sohail, S. A. Joshi & J. Iqbal	KRADLE	Designed Monomers and Polymers	22-Aug-16	1568-5551	https://www.scopus.com/sourceid/12900
Preparation and characterization of chemically deposited nickel sulphide film and its application as a potential counter electrode	Jaymin Ray, Mitesh Patel, Prashant Ghediya and T. K. Chaudhuri,	KRADLE	Materials Research Express	25-Jul-16	2053-1591	https://www.scopus.com/sourceid/21100432452
Facile one-step synthesis of PbS/Polyvinylpyrrolidone nanocomposite films	Mitesh H. Patel, T. K. Chaudhri, Jaymin Ray and Sachin Joshi	KRADLE	Adv. Sci. Lett	4-Apr-16	1936-6612	
Direct-coated photoconducting nanocrystalline PbS thin film with tunable band gap	Dhaval Vankhade, Anjana Kothari and Tapas K. Chaudhuri	KRADLE	Journal of Electronic Materials	19-Feb-16	ISSN: 0361-5235	https://www.scopus.com/sourceid/26620
Electrical conduction of CZTS films in dark and under light from molecular solution ink	Prashant R. Ghediya, T. K. Chaudhuri and Dhaval Vankhade	KRADLE	Journal of Alloys and Compounds	15-Nov-16	0925-8388	https://www.scopus.com/sourceid/12325
Photothermoelectric and photoconducting properties of layer-by-layer deposited nanocrystalline PbS films	Dhaval Vankhade and Tapas K. Chaudhuri	KRADLE	Springer Proceedings in Physics	21-Oct-16	Print ISBN 978-3-319-29095-9	
Electrochemical loading of TEM grids used for the study of potential dependent morphology of polyaniline nanofibres	Gopal Ram Bhadu, A. Paul, M. Perween, R. Gupta, J. Chaudhari, D N Srivastava	PDPIAS	J. microscopy	1-Mar-16	0022-2720	https://www.scopus.com/sourceid/20919
Fluorescence characteristics of carbon nanoemitters derived from sucrose by green hydrothermal and microwave methods	Rajesh Patidar, Babulal Rebarry, Gopala Ram Bhadu	PDPIAS	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	5-Dec-16	1386-1425	https://www.scopus.com/sourceid/24530

Temperature dependence quasi-static measurements on a magnetorheological fluid having plate like iron particles as dispersed phase	Zarana Laherisheth and Ramesh V Upadhyay	PDPIAS	Journal of Intelligent Materials system and structures		ISSN: 1045-389X	
A rapid qualitative assay for detection of Clostridium perfringens in canned food products	Gayatri Dave	Biological Sciences, PDPIAS	Acta Biochimica Polonica	7/11/2017		https://www.scopus.com/sourceid/16753
Synthesis, characterization and in silico designing of diethyl-3-methyl-5-(6-methyl-2-thioxo-4-phenyl-1,2,3,4-tetrahydropyrimidine-5-carboxamido) thiophene-2,4-dicarboxylate derivative as anti-proliferative and anti-microbial agents	Kalpesh Malani, Sampark S Thakkar, Mukund Chandra Thakur, Arabinda Ray, Hiren Doshi	Chemical Sciences, PDPIAS	Bioorganic Chemistry	1-Oct-16	0045-2068	
Synthesis and biological screening of novel 2-morpholinoquinoline nucleus clubbed with 1,2,4-oxadiazole motifs.	Karad SC, Purohit VB, Thummar RP, Vaghasiya BK, Kamani RD, Thakor P, Thakkar VR, Thakkar SS, Ray A, Raval DK	Chemical Sciences, PDPIAS	European Journal of Medicinal Chemistry	9/12/2016	0223-5234	https://www.scopus.com/sourceid/17464
Ionic Liquid Promoted Facile And Green Synthesis Of 1,8-dioxo-octahydroxanthene Derivatives Under Microwave Irradiation	ABHISHEK NATHALAL DADHANIA; VAIBHAV KIRITKUMAR PATEL; DIPAK K RAVAL	Chemical Sciences, PDPIAS	Journal of Saudi Chemical Society	1-Jan-17	1319-6103	https://www.scopus.com/sourceid/19400158707
Synthesis and biological screening of novel 2-morpholinoquinoline nucleus clubbed with 1,2,4-oxadiazole motifs.	Karad SC, Purohit VB, Thummar RP, Vaghasiya BK, Kamani RD, Thakor P, Thakkar VR, Thakkar SS, Ray A, Raval DK	Chemical Sciences, PDPIAS	European Journal of Medicinal Chemistry	9-Dec-16	0223-5234	https://www.scopus.com/sourceid/17464
Status of Zc (4050), Y(4140) and Y(4360) states as mixed P wave states of charmonium	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	Physical Sciences, PDPIAS	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	12/9/2016		www.sympnp.org/proceedings

Mass spectra of Charmonia using Martin-like potential in a Relativistic Dirac formalism	P. C. Vinodkumar, Manan Shah, Tanvi Bhavsar, Bhavin Patel	Physical Sciences, PDPIAS	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	12/9/2016		www.sympnp.org/proceedings
Effect of growth parameters on the optical properties of ZnO nanostructures grown by simple solution methods	Anjana Kothari	KRADLE	AIP Conference Proceedings	2016		https://www.scopus.com/sourceid/12325
Optical properties of PbS/ Polyvinylpyrrolidone nanocomposite films	Mitesh Patel, Tapas K. Chaudhri, Vaibhav K. Patel, T. Shripathi and U. Deshpande	KRADLE	AIP Conf. Proc.	2016		https://www.scopus.com/sourceid/21157
Effect of light on hopping conduction in kesterite CZTS thin films	Prashant Ghediya, T. K. Chaudhuri and Jaymin Ray	KRADLE	AIP Conference Proceedings	2016		https://www.scopus.com/sourceid/21100779241
Temperature dependence electrical conduction of solution processed CZTS films in dark and under light	Prashant R. Ghediya and T. K. Chaudhuri	KRADLE	The European Physical Journal C, IOP Conf. Series: Materials Science and Engineering	07-08-1905		doi:10.1088/1757-899X/149/1/012162

2017-18

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
Transgenic Peanut (<i>Arachis hypogaea</i> L.) Overexpressing mtID Gene Showed Improved Photosynthetic, Physio-Biochemical, and Yield-Parameters under Soil-Moisture Deficit Stress in Lysimeter System	Patel KG, Thankappan R, Mishra GP, Mandaliya VB, Kumar A and Dobarja JR	PDPIAS	Frontiers in Plant Science	3-Nov-17		https://www.scopus.com/sourceid/21100313905
A new class of functions suggested by the generalized hypergeometric function	Meera H. Chudasama B. I. Dave	PDPIAS	Journal of Indian Mathematical Society	7/4/2017	0019-5839	https://www.scopus.com/sourceid/21100259506
A rapid qualitative assay for detection of <i>Clostridium perfringens</i> in canned food products	GA Dave	PDPIAS	Acta Biochimica Polonica	9-Jun-17	0001-527X	https://www.scopus.com/sourceid/16753
Parametric Study on Eco-Friendly Bricks	Dhonde BN, Panchal VR, Thakker JN	Biological Sciences/ PDPIAS	Kalpa	7/22/2017	2515-1789	
Role of inter-particle force between micro and nano magnetic particles on the stability of magnetorheological fluid	Zarana Laherisheth, Kinnari Parekh, and R. V. Upadhyay	KRADLE/P DPIAS	AIP ADVANCES	13-Feb-17	ISSN: 2158-3226	https://www.scopus.com/sourceid/19900193962
Performance of Mn-Zn ferrite magnetic fluid in a prototype distribution transformer under varying loading conditions	Jaykumar Patel, Kinnari Parekh, R.V. Upadhyay	KRADLE/P DPIAS	International Journal of Thermal Sciences	1-Apr-17	ISSN: 1290-0729	https://www.scopus.com/sourceid/13761

Temperature dependent acoustic properties of temperature sensitive magnetic fluid subjected to magnetic field	Kinnari Parekh, Jaykumar Patel, R.V. Upadhyay	KRADLE/P DPIAS	Journal of Molecular Liquids	1-Dec-17	ISSN: 0167-7322	https://www.scopus.com/sourceid/26965
The effect of magnetic field induced aggregates on ultrasound propagation in aqueous magnetic fluid	Kinnari Parekh, R.V.Upadhyay	KRADLE/P DPIAS	Journal of Magnetism and Magnetic Materials	1-Jun-17	ISSN: 0304-8853	https://www.scopus.com/sourceid/28526
Nanolubricant: magnetic nanoparticle based	Kinjal Trivedi, Kinnari Parekh and Ramesh V Upadhyay	KRADLE/P DPIAS	Mater. Res. Express	10-Nov-17	ISSN: 2053-1591	https://www.scopus.com/sourceid/21100432452
Layer-engineered I-V characteristics of p-Si/WS ₂ Van der Waals Heterostructure diode	Sanni Kapatel, C.K. Sumesh, Pratik Pataniya, G.K. Solanki, K.D. Patel	PDPIAS	THE EUROPEAN PHYSICAL JOURNAL PLUS	26-Apr-17	ISSN:21905444	https://www.scopus.com/sourceid/21100201754
Crystal growth, characterization and photo detection properties of 2H-V _{0.75} W _{0.25} Se ₂ ternary alloy with 1T-VSe ₂ secondary phase	Pratik Pataniya , G K Solanki, K D Patel, V M Pathak, C K Sumesh	PDPIAS	Mater. Res. Express	25-Oct-17	2053-1591	https://www.scopus.com/sourceid/21100432452
Salt assisted sonochemical exfoliation and synthesis of highly stable few-to-monolayer WS ₂ quantum dots with tunable optical properties	Sanni Kapatel, Chandresh Mania, C. K. Sumesh	PDPIAS	J Mater Sci: Mater Electron	31-Jan-17		https://www.scopus.com/sourceid/21177
Influence of particle shape on the magnetic and steady shear magnetorheological properties of nanoparticle based MR fluids	Zarana Laherisheth and R V Upadhyay	PDPIAS	Smart. Mater. Struct.	4/6/2017	0964-1726 (print); 1361-665X (web)	https://www.scopus.com/sourceid/29859
Immobilization on graphene oxide improves the thermal stability and bioconversion efficiency of D-psicose 3-epimerase for rare sugar production	Samir R Dedania, Manisha J Patel, Dijit M Patel, Rekha C Akhiani, Darshan H. Patel	PDPIAS	Enzyme and Microbial Technology	1-Dec-17	0141-0229	https://www.scopus.com/sourceid/15609

Certain properties of Gegenbauer polynomials via Lie algebra	Jyotindra C. Prajapati. Junesang choi, Krunal B. Kachhia, Praveen Agarwal	PDPIAS	<u>Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas</u>	6/10/2016	1578-7303	https://www.scopus.com/sourceid/19400157008
RICIN super family Carbohydrate Binding Module 13 containing Pectate Lyase 1B from Bacillus licheniformis displaying hyper thermal stability and affinity for xylan	Rekha C. Akhani, Arti T. Patel, Manisha J. Patel, Samir R. Dedania and Darshan H. Patel	PDPIAS	Asian Journal of Biochemistry	15-Feb-17		https://www.scopus.com/sourceid/11300153309
Bioproduction of L-aspartic acid and cinnamic acid by L-aspartate ammonia lyase from Pseudomonas aeruginosa PAO1	Arti T. Patel, Rekha C. Akhani, Manisha J. Patel, Samir R. Dedania and Darshan H. Patel	PDPIAS	Applied biochemistry and biotechnology	17-Dec-16	0273-2289	https://www.scopus.com/sourceid/110291
A single and two step isomerization process for D-Tagatose and L-Ribose bioproduction using L-arabinose isomerase and D-lyxose isomerase	Manisha J Patel, Arti T Patel, Rekha Akhani, Samir R. Dedania, Darshan H Patel	PDPIAS	Enzyme and Microbial Technology	1-Feb-17	0141-0229	https://www.scopus.com/sourceid/15609
Nano silver-embedded electrospun nanofiber of poly(4-chloro-3-methylphenyl methacrylate): use as water sanitizer	Mehdihasan I. Shekh & Nirmal N. Patel & Kaushal P. Patel & Rajnikant M. Patel	PDPIAS	Environ Sci Pollut Res	2/17/2017	1614-7499	https://www.scopus.com/sourceid/23918
Nano CdS Doped Poly (4-Formyl-2-Methoxyphenyl Methacrylate): Synthesis, Characterization and Thermal Properties	Nirmal N Patel, Kaushal P Patel and Rajnikant M Patel	PDPIAS	Journal of Chemical and Pharmaceutical Research	2/17/2017	0975-7384	
Novel Acrylic Copolymers Derived from 4-Chloro-3,5-Dimethyl Phenol: Synthesis, Characterization and Antimicrobial Screening	Dijit M Patel, Kaushal P Patel and Rajnikant M Patel	PDPIAS	Journal of Chemical and Pharmaceutical Research	5/31/2017	0975-7384	

Enhancement in recovery of drugs with high protein binding efficiency from human plasma using magnetic nanoparticles	Aniruddha Bhati, Rucha P. Desai, C.N. Ramchand	PDPIAS	Journal of Pharmaceutical and Biomedical Analysis	5-Sep-17	0731-7085	https://www.scopus.com/sourceid/23061
Application of an industrial waste magnetic iron dust as a solid phase support for immobilizing enzyme of industrial applications	Jagdish Shantilal Patel, Darshan H Patel, Rucha Desai, Sunil Shah, Piyush Chudasama, Sachin Joshi, Bhargav Patel	PDPIAS	Adsorption Science & Technology	1-Aug-16	0263-6174	https://www.scopus.com/sourceid/16304
QUARKONIUM : A COMPARISON WITH POSITRONIUM	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET)	Sept. - 2017	2320-6586	
Effect of Particle Concentration on Lubricating Properties of Magnetic Fluid	Kinjal Trivedi, Anjana Kothari, Kinnari Parekh and Ramesh V Upadhyay	KRADLE/PDPIAS	Journal of Nanofluids	1-Jun-18	2169-432X	https://www.scopus.com/sourceid/21100858674
Effects of mutations of non-catalytic aromatic residues on substrate specificity of Bacillus licheniformis endocellulase cel12A	Anil S Prajapati, Darshan H Patel, RB Subramanian	PDPIAS	Process Biochemistry, Process Biochem.	1-Apr-18	1359-5113	https://www.scopus.com/sourceid/16134
Molecular and biochemical characterization of a thermostable keratinase from Bacillus altitudinis RBDV1	Vishakha A Pawar, Anil S Prajapati, Rekha C Akhiani, Darshan H Patel, RB Subramanian	PDPIAS	3 Biotech	2-Feb-18	2190-5738	https://www.scopus.com/sourceid/21100447128
Effects of substrate binding site residue substitutions of xynA from Bacillus amyloliquefaciens on substrate specificity	Anil S Prajapati, Vishakha A Pawar, Ketankumar J Panchal, Ankit P Sudhir, Bhaumik R Dave, Darshan H Patel, RB Subramanian	PDPIAS	BMC Biotechnology, BMC Biotechnol	13-Feb-18	1472-6750	https://www.scopus.com/sourceid/14988

Review on Cellulase and Xylanase Engineering for Biofuel Production	Anil S Prajapati, Ketankumar J Panchal, Vishakha A Pawar, Monica J Noronha, Darshan H Patel, RB Subramanian	PDPIAS	Industrial Biotechnology, Ind Biotechnol	1-Feb-18	1931-8421	https://www.scopus.com/sourceid/4400151409
Sonochemical synthesis of 2,3-dihydro-4(1H)-quinazolinones and 1-amidoalkyl-2-naphthols using magnetic nanoparticle supported ionic liquid as a heterogeneous catalyst	Harsh N Dadhania, Dipak K Raval, Abhishek N Dadhania	PDPIAS	Res Chem Intermed (Springer)	17-Aug-17	1568-5675	https://www.scopus.com/sourceid/21492
Magnetic Nanoparticle Supported Phosphotungstic Acid: An Efficient Catalyst for the Synthesis of Xanthene Derivatives	Nipun Patel, Deepak Katheriya, Harsh Dadhania & Abhishek Dadhania	PDPIAS	AIP Conference Proceedings	11-May-18	0094243X	https://www.scopus.com/sourceid/26916
Status of quarkonia-like negative and positive parity states in a relativistic confinement scheme	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	The European Physical Journal C (EPJ C)	16-Mar-18	1434-6052	https://www.scopus.com/sourceid/27545
Dip-coated PbS/PVP nanocomposite films with	Mitesh H. Patel, Tapas K. Chaudhuri, Vaibhav K. Patel, T. Shripathi, U. Deshpande, and N. P. Lalla	Department of Chemical Sciecnes	RSC Advances	2017	2046-2069	https://www.scopus.com/sourceid/21100199840
Influence of Pb ²⁺ -Thiourea complex concentration on the structural, optical, thermal and electrical properties of PbS/PVP-PVA nanocomposite films	Mitesh H. Patel, Tapas K. Chaudhuri, T. Shripathi, U. Deshpande and Vaibhav K. Patel	Department of Chemical Sciecnes	Journal of Polymer Reserach	2018	1022-9760	https://www.scopus.com/sourceid/13687
Sensing properties of pristine boron nitride nanostructures towards alkaloids: A first principles dispersion corrected study	Basant Roondhe, Shweta D.Dabhi and Prafulla K.Jha	PDPIAS	Applied Surface Science	31-May-18	0169-4332	https://www.scopus.com/sourceid/28983

The First Principle Calculation Of Structural, Electronic, Magnetic, Elastic, Thermal And Lattice Dynamical Properties Of Fully Compensated Ferrimagnetic Spin-gapless Heusler Alloy Zr ₂ MnGa	Pratik D.Patel, SatyamShinde, Sanjay D.Gupta, Shweta D.Dabhi, Prafulla K.Jha	PDPIAS	Computational Condensed Matter	2-Mar-18	2352-2143	https://www.scopus.com/sourceid/21100370079
Investigation of structural, electrical and optical properties of SbXW ₁ -XSe ₂	Abhishek Patel, Pratik Pataniy, Som Narayan, C.K. Sumesh, V.M. Pathak, G.K. Solankia, K.D. Patel, Prafulla K. Jha	PDPIAS	Materials Science in Semiconductor Processing	1-Jul-18	1369-8001	https://www.scopus.com/sourceid/26675
Protective Effects of Diallyl Sulfide Against Ethanol-Induced Injury in Rat Adipose Tissue and Primary Human Adipocytes.	Kema VH, Khan I, Jamal R, Vishwakarma SK, Lakki Reddy C, Parwani K, Patel F, Patel D, Khan AA, Mandal Palash	PDPIAS	Alcohol Clin Exp Res	1-Jun-17	1530-0277	https://www.scopus.com/sourceid/24791
p-Deformation of a general class of polynomials and its properties	Rajesh V. Savalia and B. I. Dave	Maths/PDP IAS	The Journal of the Indian Mathematical Society	8/15/2017	0019-5839	https://www.scopus.com/sourceid/21100259506
Ferrofluid Lubrication of a Rough Porous Secant-Shaped Slider Bearing with Slip Velocity	J. R. Patel, G. M. Deheri, S. J. Patel	PDPIAS	Journal of the Serbian Society for Computational Mechanics	1-Jun-18	1820-6530	https://www.scopus.com/sourceid/21100228011
Ferrofluid Lubrication of a Double Layer Porous Rough Slider Bearing	J. R. Patel, G. M. Deheri	PDPIAS	International Journal of Applied Science and Engineering	1-Feb-18	1727-2394	https://www.scopus.com/sourceid/21100822732
Elucidating IAA Producing Kocuria flava FA10 as a Potent PGPB and Biocontrol Agent	FARHAT MARCHAWALA, MIRAG MANGUKIA AND SEEMA AMIN	Biological Sciences, PDPIAS	International Journal of Biotechnology and Biochemistry	28-Jul-18	ISSN 0973-2691 Volume 14, Number 3 (2018) pp. 185-191	

1,2,4-Triazole and 1,3,4-oxadiazole analogues: Synthesis, MO studies, in silico molecular docking studies, antimalarial as DHFR inhibitor and antimicrobial activities	Sampark S Thakkar, Parth Thakor, Hiren Doshi, Arabinda Ray	Chemical Sciences	Bioorganic & Medicinal Chemistry	1-Aug-17	0968-0896	https://www.scopus.com/sourceid/25786
Benzothiazole analogues: Synthesis, characterization, MO calculations with PM6 and DFT, in silico studies and in vitro antimalarial as DHFR inhibitors and antimicrobial activities	Sampark S Thakkar, Parth Thakor, Hiren Doshi, Arabinda Ray, Vasudev R. Thakkar	Chemical Sciences	Bioorganic & Medicinal Chemistry	15-Oct-17	0968-0896	https://www.scopus.com/sourceid/25786
Synthesis, characterization, in silico molecular docking study and biological evaluation of a 5-(phenylthio) pyrazole based polyhydroquinoline core moiety	Nirav H. Sapariya, Beena K. Vaghasiya, Rahul P. Thummar, Ronak D. Kamani, Kirit H. Patel, Parth Thakor, Sampark S. Thakkar, Arabinda Ray and Dipak K. Ravala	Chemical Sciences	New Journal of Chemistry	18-Aug-17	1144-0546	https://www.scopus.com/sourceid/24824
COMPATIBILITY OF KOCURIA FLAVA FA10 WITH PSEUDOMONAS PUTIDA FOR GROWTH PROMOTION AND BIOCONTROL OF ROOT KNOT NEMATODES IN OKRA (ABELMOSCHUS ESCULENTUS)	FARHAT MARCHAWALA, MIRAG MANGUKIA AND SEEMA AMIN	Biological Sciences, PDPIAS	Asian Journal of Microbiology, Biotechnology & Environmental Sciences Paper	1-Aug-18	0972-3005	
Bioproduction and characterization of extracellular melanin-like pigment from industrially polluted metagenomic library equipped Escherichia coli	Shivani Amin, Rajesh P. Rastogi, Ravi R. Sonani, Arabinda Ray, Rakesh Sharma, Datta Madamwara	Chemical Sciences	Science of The Total Environment	9-Jan-18	0048-9697	https://www.scopus.com/sourceid/25349
Methacrylate copolymers and their composites with nano-CdS:synthesis, characterization, thermal behavior, and antimicrobial properties	Mehdihasan I. Shekh, Dijit M. Patel, Nirmal N. Patel, Umesh S. Patel, Kaushal P. Patel and Rajnikant M. Patel	Chemical Sciences	International Journal of Industrial Chemistry	5-Aug-18	2228-5970	https://www.scopus.com/sourceid/21100406430

Phthalimide Subsidiary Containing Novel Acrylate Copolymers to Use as Antimicrobial Agent	<i>Rajesh J Patel Nirmal N Patel , Kaushal P Patel, Rajnikant M Patel</i>	Chemical Sciences	CHARUSAT Journal	6-Apr-17		
Novel acrylate polymer nanocomposites with nano CdS	Patel, Nirmal N Patel, Kaushal P Patel, Rajnikant M	Chemical Sciences	Indian journal of chemistry	12-Jan-17	0376-4710	https://www.scopus.com/sourceid/24110
Phytol induces ROS mediated apoptosis by induction of caspase 9 and 3 through activation of TRAIL, FAS and TNF receptors and inhibits tumor progression factor Glucose 6 phosphate dehydrogenase in lung carcinoma cell line (A549)	ParthThakor, Ramalingam B.Subramanian, Sampark S.Thakkar, ArabindaRay, Vasudev R.Thakkar	Chemical Sciences	Biomedicine & Pharmacotherapy	8-Jan-17	0753-3322	https://www.scopus.com/sourceid/28620
Chemical bath deposition and characterization of ZnO rod-array films	Anjana Kothari and T K Chaudhuri	KRADLE	International journal of Research in Modern Engineering and emerging technology	Sep-17	2320-6586	
evaluating the effect of diallyl sulfide on regulation of inflammatory mRNA expression in 3T3L1 adipocytes and RAW 264.7 macrophages during ethanol treatment	V H Kema, I Khan, S Kapur and Palash Mandal	PDPIAS	Drug and chemical toxicology	12-Nov-17	0148-0545	http://doi.org/10.1080/01480545.2017.1405969
Potential molecular mechanism of probiotics in alcoholic liver disease	Dhara Patel, Farhin Patel and Palash Mandal	PDPIAS	Journal of alcoholism & drug dependence	31-Aug-17	2329-6488	DOI:10.4172/2320-6488.1000278
Association of advanced glycation end products (AGEs) with diabetic nephropathy and alcohol consumption	Kirti Parwani and Palash Mandal	PDPIAS	Journal of alcoholism & drug dependence	8-Dec-17	2329-6488	doi:10.4172/2320-6488.1000200

An approach for scalable production of Silver (Ag) decorated WS2 nanosheets	C. K. Sumesh, Sanni Kapatel and Arti Chaudhari	PDPIAS	AIP Conference Proceedings		0094-243X	
Spectroscopy and decay properties of $s\bar{s}$ mesons using Martin -like confinement potential	P. C. Vinodkumar, Tanvi Bhavsar, Manan Shah	PDPIAS	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	May-18	43093	
A relativistic quark model for T2cs	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	May-18	43093	
S-wave spectroscopy and Hyperfine splitting of Bc meson	Manan Shah, Tanvi Bhavsar, P. C. Vinodkumar	PDPIAS	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	May-18	43093	
Pseudoscalar Charmonia Masses And Its Digamma Decay Width With QCD Correction	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	AIP Conference Proceedings	May-18		978-0-7354-1648-2
Quarkonium: a comparison with Positronium	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET)	May-18	42979	ISSN: 2320-6586
Masses of T4c tetra quark state in a relativistic formalism	P. C. Vinodkumar, Tanvi Bhavsar, Manan Shah	PDPIAS	Proceedings of Science (PoS)	May-18	42979	ISSN: 1824-8039
Decay Properties of J^{\pm} State of Quarkonia in Dirac Relativistic Formalism	Manan Shah, P. C. Vinodkumar, Tanvi Bhavsar and Bhavin Patel	PDPIAS	Proceedings of XII DAE-BRNS High Energy Physics (HEP) Symposium 2016	May-18	42720	(ISSN 1867-4941) (ISBN: 978-3-319-73171-1)

Mass Spectra of Bottonia Using Linear Potential in Relativistic Frame Work	Tanvi Bhavsar, Manan Shah, Bhavin Patel and P. C. Vinodkumar	PDPIAS	Proceedings of XII DAE-BRNS High Energy Physics (HEP) Symposium 2017	2018	43085	(ISSN 1867-4941) (ISBN: 978-3-319-73171-1)
Magnetic Nanoparticle Supported Phosphotungstic Acid: An Efficient Catalyst for the Synthesis of Xanthene Derivatives	Nipun Patel, Deepak Katheriya, Harsh Dadhanania, Abhishek Dadhanania	Chemical Sciences	AIP Conference Proceedings	2018	0094-243X	
Effect of Growth Parameters on the Optical Properties of ZnO Nanostructures Grown by Simple Solution Methods	Anjana Kothari	KRADLE	American Institute of Physics (AIP) Conference Proceedings	2-May-17		978-0-7354-1507-2
Influence of multi-components in a magnetic fluid on tribological properties	Trivedi Kinjal, Upadhyay V Ramesh	PDPIAS	Proceeding tribology society of India	42898		Tribology society of India
Column chromatography free purification of recombinant α -amylase from Bacillus licheniformis by tagging with hydrophobic Elastin Like Polypeptide	Rekha C. Akhani, Arti T. Patel, Manisha J. Patel, Samir R. Dedania and Darshan H. Patel	PDPIAS	Proceedings of National Academy of Science India Section B	2018	0369-8211	
Methacrylate copolymers and their composites with nano-CdS: synthesis, characterization, thermal behavior, and antimicrobial properties	Mehdihasan I. Shekh, Dijit M. Patel, Nirmal N. Patel, Umesh S. Patel, Kaushal P. Patel & Rajnikant M. Patel	Chemical Sciences	International Journal of Industrial Chemistry	8-May-18	2228-5547	https://www.scopus.com/sourceid/21100406430
Phthalimide subsidiary containing novel Acrylate copolymers to use as Antimicrobial Agent	Nirmal N. Patel, Kaushal P. Patel, Rajnikant M. Patel, Rajesh J. Patel	Chemical Sciences	Charusat Journal	1-Sep-17	---	
Novel acrylate polymer nanocomposites with nano CdS	Nirmal N. Patel, Kaushal P. Patel, Rajnikant P. Patel	Chemical Sciences	Indian Journal of Chemistry	1-Dec-17	0376-4699	https://www.scopus.com/sourceid/24110

Phytol induces ROS mediated apoptosis by induction of caspase 9 and 3 through activation of TRAIL, FAS and TNF receptors and inhibits tumor progression factor Glucose 6 phosphate dehydrogenase in lung carcinoma cell line (A549)	Parth Thakor, Ramalingam B Subramanian, Sampark S Thakkar, Arabinda Ray, Vasudev R Thakkar	Chemical Sciences	Biomedicine & Pharmacotherapy	1-Aug-17	0753-3322	https://www.scopus.com/sourceid/28620
Magnetic field induced birefringence in magnetic fluid	Urveshkumar Soni, Rucha Desai	PDPIAS	American Institute of Physics (AIP) Conference Proceedings	43228	0094-243X	978-0-7354-1648-2

2018-19
3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years (15)

3.4.5.1: Number of research papers in the Journals notified on UGC website during the last five years

Title of paper	Name of the author/s	nt of the	Name of journal	Year of publica	ISSN number	in UGC enlistment of
Absence of association between TLR4 Thr399Ile polymorphism and cervical cancer susceptibility	Nilesh Pandey, Alex Chauhan, Nitin Raithatha, Purvi Patel, Ajesh Desai, Neeraj Jain	PDPIAS	Meta Gene	9-Jul-18	ISSN / eISSN: 2214-5400	https://www.scopus.com/sourceid/21100283722
Absence of toll-like receptor 9 Pro99Leu polymorphism in cervical cancer	Alex Chauhan, Nilesh Pandey, Nitin Raithatha, Purvi Patel, Ajesh Desai, Neeraj Jain	PDPIAS	F1000Research	30-Aug-18	ISSN 2046-1402	https://www.scopus.com/sourceid/21100258853
TLR4 Polymorphisms and Expression in Solid Cancers	Nilesh Pandey, Alex Chauhan, Neeraj Jain	PDPIAS	Molecular Diagnosis & Therapy	11-Oct-18	ISSN 1177-1062	https://www.scopus.com/sourceid/4200151509
Evaluating the effect of diallyl sulfide on regulation of inflammatory mRNA expression in 3T3L1 adipocytes and RAW 264.7 macrophages during ethanol treatment.	Kema VH, Khan I, Kapur S, Mandal Palash	PDPIAS	Drug and Chemical Toxicology	10-Jan-18	ISSN 0148-0545	https://www.scopus.com/sourceid/20766
Solution-based deposition of SnS nanostructures from mechanochemically prepared precursor bath	Anjana Kothari, Kunjal Dave	KRADLE	Materials Letters	1-Feb-19	ISSN: 0167-577X	https://www.scopus.com/sourceid/28697
Effect of size and morphology on stability and thermal conductivity of ZnO nanofluid	Juhi Patel and Kinnari Parekh	KRADLE/PDPIAS	J. Nanofluid	2-Apr-18	ISSN: 2169-432X (Print)	https://www.scopus.com/sourceid/21100858674
The effect of magnetic field on the structure formation in an oil-based magnetic fluid with multicore iron oxide nanoparticles	Zarana Laherisheth, Kinnari Parekh and R V Upadhyay	KRADLE/PDPIAS	J. Nanofluid	2-Apr-18	ISSN: 2169-432X (Print)	https://www.scopus.com/sourceid/21100858674

Effect of particle concentration on lubricating properties of magnetic fluid	Kinjal Trivedi, Anjana Kothari, Kinnari Parekh, Ramesh V Upadhyay	KRADLE/P DPIAS	J. Nanofluid	3-Jun-18	ISSN: 2169-432X (Print)	https://www.scopus.com/sourceid/21100858674
Design and development of large radial clearance static and dynamic magnetic fluid seal	Saurabh Parmar, Venkat Ramani, R.V. Upadhyay and Kinnari Parekh	KRADLE/P DPIAS	Vacuum	31-Oct-18	ISSN: 0042-207X	https://www.scopus.com/sourceid/12489
Defragmentation of lysozyme derived Amyloid β fibril using Biocompatible Magnetic fluid	Nidhi Parikh and Kinnari Parekh	KRADLE	Journal of Material Science: Materials in Medicine	3-Nov-18	ISSN: 0957-4530 (Print)	DOI: 10.1007/s10856-018-6185-7
Morphological metamorphosis of magnetic nanoparticles due to the presence of rare earth atoms in the spinel structure: from spheres to cubes	Kinnari Parekh, Daniel H. G. Espinosa, Dennys Reis, Cristiano L. P. de Oliveira, Wagner Wlysses and Ant3nio Martins Figueiredo Neto	KRADLE	Materials Chemistry and Physics	15-Jan-19	ISSN: 0254-0584	https://www.scopus.com/sourceid/17800
Reply to comments on "The effect of magnetic field induced aggregates on ultrasound propagation in aqueous magnetic fluid",	Kinnari Parekh and R V Upadhyay	KRADLE/P DPIAS	J Magn. Magn. Mater.	1-Apr-19	ISSN: 0304-8853	https://www.scopus.com/sourceid/28526
Density Functional Study Of Adsorption And Desorption Dynamics Of Hydrogen In Zirconium Doped Aluminium Clusters	Hardik L.Kagdada, Shweta D. Dabhi, Prafulla K.Jha	PDPIAS	International Journal Of Hydrogen Energy	22-Nov-18	0169-4332	https://www.scopus.com/sourceid/26991?origin=resultlist
Strain And Layer Modulated Electronic And Optical Properties Of Low Dimensional Perovskite Methylammonium Lead Iodide: Implications To Solar Cells	Narayan N.Som, P.M.W.P. Sampath, Shweta D.Dabhi, Venu Mankad, SatyamShinde, M.L.C.Atygalle, Prafulla K.Jha	PDPIAS	Solar Energy	30-Oct-18	0038-092X	https://www.scopus.com/sourceid/13333
Hydrogen Evolution Reaction And Electronic Structure Calculation Of Two Dimensional Bismuth And Its Alloys	Sharad Babu Pillai, Shweta D. Dabhi, Prafulla K.Jha	PDPIAS	International Journal Of Hydrogen Energy	22-Nov-18	0169-4332	https://www.scopus.com/sourceid/26991?origin=resultlist

ab initio Energetics and Thermoelectric Profiles of Gallium Pnictide Polytypes	Trupti K. Gajaria, Shweta D. Dabhi, Prafulla K.Jha	PDPIAS	Scientific Reports	10-Apr-19	2045-232	https://www.scopus.com/sourceid/21100200805?origin=recordpage
FT-IR method for estimation of phytic acid content during bread-making process	Gayatri Dave and H A Modi	PDPIAS	Food Measurement and Characterization	1-Jun-18		http://doi.org/10.1007/s11694-018-9836-y
Phytase-Fe ₃ O ₄ nanoparticles-loaded microcosms of silica for catalytic remediation of phytate-phosphorous from eutrophic water bodies	Gayatri Dave and H A Modi	PDPIAS	Environmental Science and Pollution Research	27-Mar-19		http://doi.org/10.1007/s11356-019-04794-y
A Highly Efficient and Solvent-Free Approach for the Synthesis of Quinolines and Fused Polycyclic Quinolines Catalyzed by Magnetite Nanoparticle-Supported Acidic Ionic Liquid	Harsh Dadhania, Dipak Raval, and Abhishek Dadhania	Chemical Sciences	POLYCYCLIC AROMATIC COMPOUNDS	20-Apr-19	1040-6638	https://doi.org/10.1080/10406638.2019.1595057
Nano catalytic Physico-chemical adsorption and degradation of organic dyes	C. K. Sumesh and Kinnari Parekh	KRADLE/PDPIAS	Pramana-Journal of Physics	30-Mar-19	ISSN: 0304-4289	https://doi.org/10.1007/s12043-019-1760-0
Eco-electrogenic treatment of dyestuff wastewater using constructed wetland-microbial fuel cell system with an evaluation of electrode-enriched microbial community structures	Rohit Rathour, Dishant Patel, Shabnam Shaikh, Chirayu Desai	PDPIAS	Bioresource Technology	13-04-2019	0960-8524	https://doi.org/10.1016/j.biortech.2019.121349
Biosorption of Cr(VI) by Halomonas sp. DK4, a halotolerant bacterium isolated from chrome electroplating sludge	Vidhi Kalola & Chirayu Desai	PDPIAS	Environmental Science and Pollution Research	22-07-2019	1614-7499	https://doi.org/10.1007/s11356-019-05942-0

Growth promotion and biocontrol activity of <i>Nocardia</i> strain YM12: an isolate from coastal agricultural land of Khambhat	Keyur Patel and Janki N Thakker	Biological Sciences	Vegetos	14-10-2019	2229-4473	
Certain properties of the q - I - Ψ Bessel function	Meera H. Chudasama B. I. Dave	PDPIAS	Boll. Unione Mat. Ital.	24-09-2018	1972-6724	https://www.scopus.com/sourceid/11300153723
A Comparison of Magnetic Fluid Flow Models on the Behavior of a Ferrofluid Squeeze Film in Curved Rough Porous Circular Plates Considering Slip Velocity	J. R. Patel, and G. M. Deheri	PDPIAS	Iranian Journal of Science and Technology, Transactions A: Science	13-Dec-17	1028-6276	https://www.scopus.com/sourceid/9500154102
Testing and evaluation of linear shear mode magnetorheological (MR) damper based on rheological properties of MR fluid	Dipal M Patel and R V Upadhyay	PDPIAS	Journal of testing and evaluation	12-May-18	ISSN 0090-3973	https://doi.org/10.1520/JTE20180030
Predicting the thermal sensitivity of MR damper performance based on thermorheological properties	Dipal Patel and R V Upadhyay	PDPIAS	Material Research Express	31-Oct-18		https://doi.org/10.1088/2053-1591/aae91a
Low cost and efficient hetero-anthracene based small organic hole transporting materials for solid state photoelectrochemical cells	Jayraj V. Vaghasiya, Keval K. Sonigara, Mitesh H. Patel, Vaibhav K. Patel, N. Sekar, Saurabh S. Soni	Department of Chemical Sciences	Materials Today Energy	11-Jul-05	2468-6069	https://www.scopus.com/sourceid/21100810501
Generalized Konhauser matrix polynomial and its properties	Reshma Sanjhira and B.I. Dave,	Mathematical Sciences	The Mathematics Student	10-Jul-05	0025-5742	
Generalized Mittag-Liffler matrix function and associated matrix polynomials	Reshma Sanjhira, B.N.Nathwani and B.I. Dave	Mathematical Sciences	J. Indian Math. Soc.	11-Jul-05	0019-5839	http://www.informaticsjournals.com/index.php/jims

Kesterite Cu ₂ ZnSnS ₄ thin films by drop-on-demand inkjet printing from molecular ink.	<u>Tapas K. Chaudhuri, Mitesh H. Patel, Devendra Tiwari, Prashant R. Ghediya</u>	PDPIAS	Journal of Alloys and Compounds	10-Jul-05	0925-8388	https://www.sciencedirect.com/science/article/abs/pii/S0925838818308879
Solution-based deposition of SnS nanostructures from mechanochemically prepared precursor bath	Anjana Kothari, Kunjal Dave	KRADLE	Materials Letters	1-Feb-19	0167577X	doi: 10.1016/j.matlet.2018.10.108
Synergistic biodegradation of phenanthrene and fluoranthene by mixed bacterial cultures.	Patel, A., Singh, S., Patel, A., Jain, K., Amin, S., & Madamwar, D.	Biological Sciences	Bioresource Technology	19-Mar-20	ISSN: 0960-8524	
Study of therapeutic role of yoga (Hathyoga) on lipid profile in dyslipidemic individuals of Ahmedabad city.	Devashree N. Oza, Nikita Vadsaria N, Tapan A. Patel, R.J. Verma.	Biological Sciences, PDPIAS	Indian Journal of Traditional Knowledge (IJTK)	4-Jan-19	0975-1068	
Electrospun ZnO Nanoparticles Doped Core–Sheath Nanofibers: Characterization and Antimicrobial Properties	Mehdihasan I. Shekh, Kaushal P. Patel and Rajnikant M. Patel	Chemical Sciences	<u>Journal of Polymers and the Environment</u> volume	22-Sep-18	1566-2543	https://doi.org/10.1007/s10924-018-1310-8
Bacteria Based Healing of Cracks with The Use of Pseudomonas and Kocuria in Concrete	Jitendra H. Kantariya, Vijay R. Panchal, Janki N. Thakker	Biological Sciences	Journal of Emerging Technologies and Innovative Research	1-Nov-18	2349-5162	http://www.jetir.org/papers/JETIRK006060.pdf
Isolation and Characterization of Rhizosphere-Competent Indigenous Phosphate-Solubilizing Bacteria for Biofertilizer Applications	Anamika Jha, Sanjay Jha	Biological Sciences	International Journal of Plant Biotechnology	---	2456–0162	https://doi.org/10.37628/ijpb.v4i2.377
Fabrication and photoresponse of n-WS ₂ /p-V _{0.25} W _{0.75} Se ₂ van der Waals heterojunction	Pratik Pataniya, G K Solanki, Chetan K Zankat, Mohit Tannarana, C K Sumesh, K D Patel & V M Pathak	Physical Sciences	<u>Pramana</u>	1-Aug-18	0973-7111	https://doi.org/10.1007/s12043-018-1624-z

Structure-activity relationship in phenothiazine antipsychotic drugs: Molecular orbital calculation, in silico molecular docking and physico-chemical parameters	Devendra Tiwari, Sampark S. Thakkar & Arabinda Ray	Chemical Sciences	Indian Journal of Chemistry	1-Sep-18	0376-4699	http://nopr.niscair.res.in/handle/123456789/45044
Influence of Pb ²⁺ -Thiourea complex concentration on the structural, optical, thermal and electrical properties of PbS/PVP-PVA nanocomposite films	Mitesh H. Patel, Tapas K. Chaudhari, T. Shripathi, U. Deshpande, Vaibhav K. Patel	Chemical Sciences	Journal of polymer research	18-Dec-17	1022-9760	https://doi.org/10.1007/s10965-017-1402-5
Antibacterial activity and Phytochemical Analysis of Methanolic and Acetonic Extracts from Moringa oleifera, vitex negundo and rosa indica	<u>Kruti Dave, Hardik Shah and Kirankumar G. Patel</u>	Biological Sciences	International Journal of Current Microbiology and Applied Sciences	10-Jul-18	2319-7692	---
Low cost and efficient hetero-anthracene based small organic hole transporting materials for solid state photoelectrochemical cells	<u>Jayraj V.Vaghasiya, Keval K.Sonigara, Mitesh H.Patel, Vaibhav K.Patel, N.Sekar, Saurabh S.Soni</u>	Chemical Sciences	Materials Today Energy	15-Aug-18	2468-6069	https://doi.org/10.1016/j.mtener.2018.07.006
Jenkins model based ferrofluid lubrication of a squeeze film in rough curved circular plates considering slip velocity	Jimit R. Patel, G.M.Deheri	Mathematical Sciences	International Journal of Theoretical and Applied Multiscale Mechanics	22-Nov-18	1755-9995	10.1504/IJTAMM.2018.096410
Pseudomonas aeruginosa Predominates as Multifaceted Rhizospheric Bacteria with Combined Abilities of P-solubilization and Biocontrol	Vaishnawi Gupta and Aditi Buch	Biological Sciences	J Pure Appl Microbiol	25-Mar-19	0973-7510	https://dx.doi.org/10.22207/JPAM.13.1.35

Towards efficient photon management in nanostructured solar cells: Role of 2D layered transition metal dichalcogenide semiconductors	C. K. Sumesh	Physical Sciences	Solar Energy Materials & Solar Cells	17-Dec-18	0927-0248	https://doi.org/10.1016/j.solmat.2018.12.016
Fabrication, photoresponse and temperature dependence of n-VO ₂ /n-MoSe ₂ heterojunction diode	AbhishekPatel, PratikPataniya, G.K.Solanki, C.K.Sumesh, K.D.Patel, V.M.Pathaka	Physical Sciences	Superlattices and Microstructures	25-Apr-19	0749-6036	https://doi.org/10.1016/j.spmi.2019.04.032
Growth and application of WSe ₂ single crystal synthesized by DVT in thin film hetero-junction photodetector	Vijay Dixit, Salil Nair, Jolly Joy, C. U. Vyas, Alkesh B. Patel, Payal Chauhan, C. K. Sumesh, Som Narayan, P. K. Jha, G. K. Solanki, K. D. Patel & V. M. Pathak	Physical Sciences	The European Physical Journal B	3-Jun-19	1434-6028	https://doi.org/10.1140/epjb/e2019-90736-3
Paper-Based Flexible Photodetector Functionalized by WSe ₂ Nanodots	Pratik Pataniya, Chetan K. Zankat, Mohit Tannarana, C. K. Sumesh, Som Narayan, G. K. Solanki, K. D. Patel, V. M. Pathak, and Prafulla K. Jha	Physical Sciences	<i>Appl. Nano Mater.</i>	23-Apr-19	25740970	https://doi.org/10.1021/acsnm.9b00266
Temperature dependant electronic charge transport characteristics at MX ₂ (M = Mo, W; X = S, Se)/Si heterojunction devices	C.K.Sumesh	Physical Sciences	Journal of Materials Science: Materials in Electronics	9-Jan-19	0957-4522	https://doi.org/10.1007/s10854-019-00703-8
Electrospun nano silver embedded polystyrene composite nanofiber as a possible water disinfectant	Patel, Nirmal N Shekh, Mehdihasan I Patel, Kaushal P Patel, Rajnikant M	Chemical Sciences	Indian Journal of Chemistry	1-Feb-19	0376-4710	http://nopr.niscair.res.in/handle/123456789/45793
Heating Efficiency Dependency on Size and Morphology of Magnetite Nanoparticles	Kinnari Parekh, Harshida Parmar, Vinay Sharma and R. V. Ramanujan	KRADLE	AIP Conf. Proc. 1942, (2018)	10-Apr-18		https://www.scopus.com/sourceid/28697

Bacteria based healing of cracks with the use of Pseudomonas and Kocuria in concrete	Jitendra H Kantaria, Vijay Panchal, Janki N Thakker	Biological Sciences	Journal of emerging technologies and innovative research		2349-5162	https://www.scopus.com/sourceid/21100858674
Ground State Masses of Singly Heavy Flavour Baryons in the Relativistic Framework	Nirali Bhavsar, Manan Shah, Tanvi Bhavsar, P. C. Vinodkumar	PDPIAS	DAE International Symposium on Nuclear Physics			https://www.scopus.com/sourceid/21100858674
Mass spectra of hidden bottom tetraquark states	P. C. Vinodkumar, Tanvi Bhavsar, Manan Shah	PDPIAS	DAE International Symposium on Nuclear Physics			https://www.scopus.com/sourceid/21100858674
Charmonia within an instanton potential	Bhoomika Pandya, Manan Shah, P. C. Vinodkumar	PDPIAS	DAE International Symposium on Nuclear Physics			https://www.scopus.com/sourceid/12489
A relativistic approach for triply heavy avour baryon	Tanvi Bhavsar, Manan Shah, P. C. Vinodkumar	PDPIAS	DAE International Symposium on Nuclear Physics			
Doubly heavy baryon in the relativistic quark model	Manan Shah, Tanvi Bhavsar, P. C. Vinodkumar	PDPIAS	DAE International Symposium on Nuclear Physics			https://www.scopus.com/sourceid/17800
Isolation and Characterization of Rhizosphere-Competent Indigenous Phosphate-Solubilizing Bacteria for Biofertilizer Applications	Anamika Jha and Sanjay Jha	PDPIAS	International journal of plant biotechnology	2018	2456-0162	https://www.scopus.com/sourceid/28526
Colonization by multi-potential Pseudomonas aeruginosa P4 stimulates peanut (Arachis hypogaea L.) growth, defence physiology and root system functioning to benefit the root-rhizobacterial interface	Vaishnawi Gupta, G Naresh Kumar, Aditi Buch	Biological Sciences	J Plant Physiol	26-Feb-20	0176-1617	DOI: 10.1016/j.jplph.2020.153144

Two-Step Facile Preparation of MoS ₂ -ZnO Nanocomposite as Efficient Photocatalyst for Methylene Blue (Dye) Degradation	Sanni Kapatel and C K Sumesh	PDPIAS	Electronic materials letters	14-Nov-18	1738-8090	https://doi.org/10.1007/s13391-018-00101-y
Qualitative and quantitative measurement of phytate during bread making process in the presence and absence of Phytase by FT-IR spectroscopy	Gayatri Dave and H A Modi	PDPIAS	Journal of Food Measurement and Characterization	9-Jan-18	2193-4134	https://doi.org/10.1007/s11694-018-9836-y

2019-20

3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years (15)

3.4.5.1: Number of research papers in the Journals notified on UGC website during the last five years

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
Contribution of magnetic nanoparticle in thermal conductivity of flake-shaped	Mujiba S Pisuwala, Ramesh V Upadhyay and Kinnari Parekh	KRADLE/P DPIAS	J. Appl. Phys. 126 (2019) 055104 (10)	1-Aug-19	ISSN: 0021-8979	https://www.scopus.com/sourceid/28132
Drug prescription patterns in patients with Alzheimer's disease in an urban Neuro-speciality clinic in Western India	Anuradha Sujai Joshi, Henil Mayur Upadhyay, Nidhi Parikh, Savan Shah, Kinnari Parekh	KRADLE/P DPIAS	National J. Physiology, Pharmacy and	30 Oct. 2019	ISSN 2320-4672	https://www.scopus.com/sourceid/21100301603
Electric response of cells containing ferrouid particles	A. M. Antonova, G. Barbero, F. Batalioto, A. M. Figueiredo Neto and K.	KRADLE/P DPIAS	Journal of Electroanalytical	1-Jan-20	ISSN: 1572-6657	https://www.scopus.com/sourceid/950015403
Two stage magnetic fluid vacuum seal for variable radial clearance	Saurabh Parmar, Venkat Ramani, R V Upadhyay and Kinnari Parekh	KRADLE/P DPIAS	Vacuum 172 (2020) 109087	1-Feb-20	<u>ISSN: 0042-207X</u>	https://www.scopus.com/sourceid/12489
Influence of magnetic field on the two-photon absorption and hyper-Rayleigh scattering of manganese-zinc ferrite	Gonçalves, Eduardo; Cocca, Leandro; Araujo, Wagner; Parekh, Kinnari; Oliveira, Cristiano; Siqueira, Jonathas;	KRADLE/P DPIAS	<i>J. Phys. Chem. C</i> , 124, 12, (2020) 6784-6795	21-Feb-20	<u>ISSN: 1932-7447</u>	https://www.scopus.com/sourceid/5200153123
Preliminary In-Vitro Investigation of Magnetic Fluid Hyperthermia In Cervical	Kinnari Parekh, Anand Bhardwaj and Neeraj Jain	KRADLE/P DPIAS	J. Magn. Magn. Mater. 497 (2020)	1-Mar-20	<u>ISSN: 0304-8853</u>	https://www.scopus.com/sourceid/28526
Evaluation of static and dynamic yield stress for isotropic and anisotropic	Mujiba Pisuwala , Ramesh V Upadhyay, and Kinnari Parekh	KRADLE/P DPIAS	Brazilian J. Of Physics	13-May-20	ISSN: 0103-9733	https://www.scopus.com/sourceid/27404
of different size and shape of Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles in association to thermo-magnetic	K. Parekh, H. Parmar, and V. Sharma	KRADLE/P DPIAS	Pramana-Journal of Physics, 94, Article number: 76	18-May-20	ISSN: 0304-4289	https://www.scopus.com/sourceid/29642
Thermal conductivity of flake-shaped iron particles based magnetorheological suspension: Influence of nano-magnetic	Ramesh V Upadhyay, Mujiba S Pisuwala, Kinnari Parekh and Kuldip Raj	KRADLE/P DPIAS	J. Magn. Magn. Mater. 503 (2020) 166633	1-Jun-20	<u>ISSN: 0304-8853</u>	https://www.scopus.com/sourceid/28526
Association of TLR4 and TLR9 gene polymorphisms and haplotypes with	Alex Chauhan, Nilesh Pandey, Nitin Raithatha, Purvi, Patel, Ronak	PDPIAS	PLoS ONE	31-Jul-19	ISSN: 1932-6203	https://www.scopus.com/sourceid/106001533

On flow of electric current in RL circuit using Hilfer type composite fractional	Krunal B. Kachhia, J. C. Prajapati, K. S. Pandya and R. Jadeja	PDPIAS	Proyecciones	28-09-2019	07176279, 07160917	https://www.scopus.com/sourceid/500015330
Comparative study of fractional Fokker-Planck equations with various fractional	Krunal B. Kachhia	PDPIAS	Discrete and Continuous	1-Mar-20	1937-1632	https://www.scopus.com/sourceid/211002070
A new class of functions suggested by the generalized hypergeometric function	Meera H. Chudasama B. I. Dave	PDPIAS	Annals of the Alexandru Ioan Cuza University of Iasi (NS). Mathematics.	22-11-2019	1221-8421	
Generalized iterative method for the solution of linear and nonlinear fractional differential equations with	Krunal B. Kachhia and Jyotindra C. Prajapati	PDPIAS	<i>AIMS Mathematics</i>	18-03-2020	2473-6988	https://www.scopus.com/sourceid/21100927407
Association of TLR4 and TLR9 polymorphisms and haplotypes with cervical cancer susceptibility	Nilesh Pandey, Alex Chauhan, Nitin Raithatha, Purvi, Patel, Ronak Khandelwal, Ajesh Desai, Yesha Choxi, Rutul Kapadia, Neeraj Jain	PDPIAS	Scientific Reports	5-Jul-19	2045-2322	https://www.scopus.com/sourceid/21100200805
VISCOSITY VARIATION EFFECT ON THE MAGNETIC FLUID LUBRICATION OF A SHORT BEARING	Jimit R. Patel, Gunamani Deheri	PDPIAS	Journal of the Serbian Society for Computational Mechanics	31-12-2019	1820-6530	https://www.scopus.com/sourceid/21100228011
Masses of tetraquark states in the hidden charm sector above $(D \bar{D})$ threshold,	Tanvi Bhavsar, Manan Shah, Smruti Patel, P. C. Vinodkumar	PDPIAS	Nuclear Physics A	20-04-2020	0375-9474	https://www.scopus.com/sourceid/29083
First principles study on small ZrAln and HfAln clusters: Structural, stability, electronic states and CO ₂ adsorption	Hardik L. Kagdada, Shweta D. Dabhi, Venu Mankad, Satyam M. Shinde, Prafulla K. Jha	PDPIAS	Materials Chemistry and Physics	8-Oct-19	0254-0584	https://www.scopus.com/sourceid/17800
Exploring the hidden catalyst from boron pnictide family for HER and OER	Trupti K.Gajaria, Basant Roondhe, Shweta D.Dabhi, Prafulla K.Jha	PDPIAS	International Journal Of Hydrogen Energy	21-Oct-19	0169-4332	https://www.scopus.com/sourceid/26991

Hydrogen evolution reaction electrocatalysis trends of confined gallium phosphide with substitutional defects	Trupti K.Gajaria, BasantRoondhe, Shweta D.Dabhi, PiotrŚpiewak, Krzysztof J.Kurzydłowski, Prafulla K. Jha	PDPIAS	International Journal Of Hydrogen Energy	30-Sep-19	0169-4332	https://www.scopus.com/sourceid/26991
Steady shear rheology and magnetic properties of flake-shaped iron apticle-based MR fluid: Before and after tribology study.	R V Upadhyay	PDPIAS	Brazilian J. Of Physics	18-10-2019	0103-9733	https://www.scopus.com/sourceid/27404
Performance enahnce ment of MR brake using Flake-shaped iron particle-based magnetorheological fluid	S R Patel, D M Patel and RV Upadhyay	PDPIAS	Journal of testing and evaluation	5-Jan-20	0090-3973	https://www.scopus.com/sourceid/21205
Stability and Thermodynamic Attributes of Starch Hydrolyzing α -Amylase of Anoxybacillus rupiensis TS-4	Kikani BA, Kurien S, Rathod U	PDPIAS	Starch	1-Jan-20	1521-379X	https://www.scopus.com/sourceid/26489
Above 800mV Open Circuit Voltage in Solid State Photovoltaic Devices Using Phosphonium Cation based Solid Ionic Conductors	Prasad, Jyoti, Machhi, Hiren, Sonigara, Keval, Patel, Vaibhav, Soni, Saurabh.	PDPIAS	ACS Materials and Internfaces	1-Apr-20	1944-8244	https://www.scopus.com/sourceid/19700171101
Immobilization of Agrobacterium tumefaciens D-psicose 3-epimerase onto titanium dioxide for bioconversion of rare sugar	Samir R Dedania, Vaibhav K Patel, Saurabh S Soni, Darshan Patel	PDPIAS	Enzyme and Microbial Technology	1-May-20	0141-0229	https://www.scopus.com/sourceid/15609
Phytase-Fe ₃ O ₄ nanoparticles loaded microcosms of silica for catalytic remediation of phytate-phosphorous from eutrophic water bodies	Gayatri Dave and H A Modi	PDPIAS	Environment Science and Pollution Research	5-Sep-19	1614-7499	https://www.scopus.com/sourceid/23918
Graphene oxide supported dicationic ionic liquid: an efficient catalyst for the synthesis of 1-carbamatoalkyl-2-naphthols	Nipun Patel, Deepak Katheriya, Harsh Dadhanania, Abhishek Dadhanania	Chemical Sciences	Research on Chemical Intermediates	8-Jul-19	1568-5675	https://www.scopus.com/sourceid/21492

Dark and photoconductivity of PbS/polystyrene nanocomposite films from 77 to 300 K	Tapas K. Chaudhri, Prashant Ghediya and Mitesh H. Patel	PDPIAS	Surfaces and Interfaces	13-Jun-20	2468-0230	https://www.scopus.com/sourceid/21100788797
Microaerophilic biodegradation of raw textile effluent by synergistic activity of bacterial community DR4	Rohit Rathour, Kunal Jain, Datta Madamwar and Chirayu Desai	PDPIAS	Journal of Environmental Management	17-09-2019	0301-4797	https://www.scopus.com/sourceid/21100317750
Western diet-induced increase in colonic bile acids compromises epithelial barrier in nonalcoholic steatohepatitis	Biki Gupta, Yunshan Liu, Daniel M Chopyk, Ravi P Rai, Chirayu Desai, Pradeep Kumar, Alton B Farris, Asma Nusrat, Charles A Parkos, Frank A Anania, Reben Raeman	PDPIAS	FASEB Journal	4-Oct-20	1530-6860	https://www.scopus.com/sourceid/15048
Blocking Integrin $\alpha 4 \beta 7$ -mediated CD4 T Cell Recruitment to the Intestine and Liver Protects Mice From Western Diet-Induced Non-Alcoholic Steatohepatitis	Ravi P Rai, Yunshan Liu, Smita S Iyer, Silvia Liu, Biki Gupta, Chirayu Desai, Pradeep Kumar, Tekla Smith, Aatur D Singhi, Asma Nusrat, Charles A Parkos, Satdarshan P Monga, Mark J Czaja, Frank A Anania, Reben Raeman	PDPIAS	Journal of Hepatology	6-Dec-20	0168-8278	https://www.scopus.com/sourceid/25297
DELIBERATING PLANT GROWTH PROMOTING AND MINERAL -WEATHERING PROFICIENCY OF STREPTOMYCES NANHAIENSIS STRAIN YM4 FOR NUTRITIONAL BENEFIT OF MILLET CROP (Pennisetum glaucum)	Keyur Patel and Janki N Thakker	Biological Sciences	Journal of Microbiology, Biotechnology and Food Science	3-Mar-20	1338-5178	https://www.scopus.com/sourceid/21100823448
Harvesting energy via stimuli-free water/moisture dissociation by mesoporous SnO ₂ -based hydroelectric cell and CuO as a pump for atmospheric moisture	Vanaraj Solanki, S. B. Krupanidhi and K. K. Nanda	KRADLE	International Journal of Energy Research	25-Nov-19	1099-114X	https://www.scopus.com/sourceid/26676

Non-enzymatic glucose sensing with hybrid nanostructured Cu ₂ O-ZnO prepared by single-step coelectrodeposition technique	Ashis K.Manna, Puspendu Guha, Vanaraj J. Solanki, S. K. Srivastava, Shikha Varma	KRADLE	Journal of Solid State Electrochemistry	18th June 20	1433-0768	https://www.scopus.com/sourceid/25199
Screening of significant medium components for enhanced elicitor production from <i>Fusarium oxysporum cubense</i> using Plackett-Burman Design	Janki N Thakker, Pinakin Dhandhukia, M Kumari, I L Kothari	Biological Sciences	CHARUSAT Journal	1-Jan-20		
Effect of <i>Amaranthus viridis</i> extract on growth as well as induction of defense in Chickpea	Sheeba Menon and Janki N Thakker	Biological Sciences	International Journal of Engineering Research and technology	1-Feb-20	2278-0181	https://www.scopus.com/sourceid/21100828027
BIO-EFFICACY OF EUPHORBIA HIRTA L. ON THE GROWTH AND ANTI OXIDANT ACTIVITY OF CICER ARIENTINUM L.	Sheeba Menon and Janki N Thakker	Biological Sciences	Plant Archives	1-Apr-20	0972-5210	https://www.scopus.com/sourceid/19900193211
Assessment of <i>Amaranthus viridis</i> L. Leaves on Growth, Antifungal and Antioxidant Activity of <i>Cicer arietinum</i>	Sheeba Menon and Janki N Thakker	Biological Sciences	International Journal of Pharma medicine and	1-Apr-20	22785221	
A p-deformed q-inverse pair and associated polynomials including Askey	Rajesh V. Savalia	Maths/PDP IAS	Commun.Korean Math. Soc.	1-Apr-19	1225-1763	https://www.scopus.com/sourceid/750015312
A general inversion pair and p-deformation of Askey scheme	Rajesh V. Savalia, B. I. Dave	Maths/PDP IAS	The Journal of the Indian Mathematical	05--03-2019	0019-5839	https://www.scopus.com/sourceid/211002595
Role of yogic practices in individuals with hypertension and low-Peak Expiratory Flow Rate (PEFR) of	Devashree N. Oza, Tapan A. Patel, R.J. Verma.	Biological Sciences, PDPIAS	Indian Journal of Traditional Knowledge (IJTK)	7-Jan-19	0975-1068	https://www.scopus.com/sourceid/19700182227

Design, synthesis, and characterization of novel substituted 1,2,4-oxadiazole and their biological broadcast	Paranjay H. Parikh, Jignesh B. Timaniya, Mrugesh J. Patel, Kaushal P. Patel	Chemical Sciences	Medicinal Chemistry Research	18-Jan-20	1054-2523	https://www.scopus.com/sourceid/18384
Separation of methane from ethane and propane by selective adsorption and diffusion in MOF Cu-BTC: A molecular	Yadava krishnan Ponraj, Bhaskarjyoti Borah	Physical Sciences	<u>Molecular Graphics and Modelling</u>	20-Feb-20	1093-3263	https://www.scopus.com/sourceid/24621
Ranking of Metal–Organic Frameworks (MOFs) for Separation of Hexane Isomers by Selective Adsorption	Viral A. Solanki, Bhaskarjyoti Borah	Physical Sciences	<u>Engineering Chemistry Research</u>	30-Sep-19	15205045	https://www.scopus.com/sourceid/13057
Exploring the Potentials of Metal–Organic Frameworks as Adsorbents and Membranes for	Viral A. Solanki, Bhaskarjyoti Borah	Physical Sciences	The Journal of Physical Chemistry C	2-Jul-19	19327447	https://www.scopus.com/sourceid/5200153123
High-Throughput Computational Screening of 12,351 Real Metal–Organic Framework Structures for Separation of Hexane Isomers: A Quest for a Yet	Viral A. Solanki, Bhaskarjyoti Borah	Physical Sciences	The Journal of Physical Chemistry	5-Feb-20	19327447	https://www.scopus.com/sourceid/5200153123
<i>Metal free approach for one-pot synthesis of 3-aryl-furo[3,2-c]coumarins</i>	Mrugesh Patel, Pranjay Parikh, Jignesh Timaniya and Kaushal Patel	Chemical Sciences	Arkivoc	10-May-20	1551-7012	https://www.scopus.com/sourceid/196001647
Screening of significant medium components for enhanced elicitor production from fusarium oxysporum	Janki N. Thakkar, Pinakin C. Dhandhukia, M. Kumari, I. L. Kothari	Biological Sciences, PDPIAS	Charusat Journal	1-Jan-20	---	
WS2 Nanosheet/Graphene Heterostructures for Paper-Based	Pratik M. Pataniya and C. K. Sumesh	Physical Sciences	Applied Nano Materials	16-Jun-20	25740970	https://www.scopus.com/sourceid/211009145
Low cost and flexible photodetector based on WSe2 Nanosheets/Graphite	Pratik M. Pataniya, C.K. Sumesh	Physical Sciences	<u>Synthetic Metals</u>	5-May-20	0379-6779	https://www.scopus.com/sourceid/18375
Solution-Processed Uniform MoSe2–WSe2 Heterojunction Thin Film on Silicon Substrate for Superior and	Alkesh B. Patel, Payal Chauhan, Kunjal Patel, Challappally Kesav Sumesh, Som Narayan, Kireetkumar D. Patel,	Physical Sciences	<i>Sustainable Chem. Eng</i>	13-Mar-20	21680485	https://www.scopus.com/sourceid/21100248891
Transferrable thin film of ultrasonically exfoliated MoSe2 nanocrystals for efficient visible-light photodetector	Patel, Alkesh B.; Chauhan, Payal; Machhi, Hiren K.; Narayan, Som; Sumesh, C. K.; Patel, K. D.; Soni,	Physical Sciences	Physica E: Low-dimensional Systems and Nanostructures	1-May-20	1386-9477	https://www.scopus.com/sourceid/29121
Malassezia species dictates the	Charmi D Patel, Anoop R Markande	Sciences	Indian J Microbiol	1-Sep-19	0046-8991	m/sourceid/19735

Growth promotion and biocontrol activity of <i>Nocardia</i> strain YM12: an isolate from coastal	Keyur B. Patel & Janki N. Thakker	Biological Sciences	Vegetos	14-Oct-19	2229-4473	https://www.scopus.com/sourceid/19400157312
Improvisation of a spectrophotometric method to quantify hydroxycitric acid	Disha Patel, Aditi Buch	Biological Sciences	Biochemistry	29-Aug-19	10960309	https://www.scopus.com/sourceid/16789
Zinc oxide functionalized molybdenum disulfide heterostructures as efficient electrocatalysts for hydrogen evolution reaction	C. K. Sumesh	Physical Sciences	International Journal of Hydrogen Energy	28-Nov-19	0360-3199	https://www.scopus.com/sourceid/26991
Allelopathic Effect of <i>Amaranthus Viridis</i> .L Fresh Leaves on Chickpea Seeds	Sheeba Menon, Janki Thakker	Biological Sciences	Research & Reviews: A Journal of	---	2231-3826	
Colonization by multi-potential <i>Pseudomonas aeruginosa</i> P4 stimulates peanut (<i>Arachis hypogaea</i> L.) growth, defence physiology and root system functioning to benefit the root-	Vaishnawi Gupta, G Naresh Kumar, Aditi Buch	Biological Sciences	J Plant Physiol	26-Feb-20	0176-1617	https://www.scopus.com/sourceid/21100828656
Above 800 mV Open-Circuit Voltage in Solid-State Photovoltaic Devices Using Phosphonium Cation-Based Solid Ionic	Jyoti Prasad, Hiren K. Machhi, Keval K. Sonigara, Vaibhav K. Patel, and Saurabh S. Soni	Chemical Sciences	ACS Appl. Mater. Interfaces	22-Apr-20	19448252	https://www.scopus.com/sourceid/19700171101
Naphthalene substituted benzo[c]coumarins: Synthesis, characterization and evaluation of	Mrugesh Patel and Kaushal Patel	Chemical Sciences	Heterocyclic Communications	31-Dec-19	7930283	https://www.scopus.com/sourceid/24080
Aerobic L-tartrate Utilization by <i>Bacillus</i> Isolates	Disha Patel, Aditi Buch	Biological Sciences	J Pure Appl Microbiol	5-Dec-19	0973-7510	https://www.scopus.com/sourceid/11700154322
Biochemical, thermodynamic and structural characteristics of a biotechnologically compatible alkaline protease from a haloalkaliphilic, <i>Nocardia</i> OK-18	Amit K.Sharma, Bhavtosh A.Kikani, Satya P.Singh	Biological Sciences	International Journal of Biological Macromolecules	5-Mar-20	0141-8130	https://www.scopus.com/sourceid/17544

Optimization of medium composition for cellulase-free xylanase production by solid-state fermentation on corn cob waste by <i>Aspergillus niger</i> DX-23	Dhara I Desai & Bragadish D Iyer	Biological Sciences	Biomass Conversion and Biorefinery	28-May-20	21906815	https://www.scopus.com/sourceid/21100466851
Tunable birefringence in silica mediated magnetic fluid	Urveshkumar Soni, Nidhi Ruparelia, Abhay Padsala and Rucha P Desai	Physical Sciences	Materials Research Express	25-Oct-19	20531591	https://www.scopus.com/sourceid/21100432452
One-Dimensional/Two-Dimensional/Three-Dimensional Dual Heterostructure Based on MoS ₂ -	Meswa Patel, Pratik Pataniya, Hitesh Vala, C. K. Sumesh	Physical Sciences	<i>J. Phys. Chem. C</i>	16-Aug-19	19327447	https://www.scopus.com/sourceid/5200153123
Strong decay of singly heavy baryon in the relativistic quark model	Manan Shah, Nirali Bhavsar, Tanvi Bhavsar, P. C. Vinodkumar	Physical Sciences	DAE-BRNS	Dec. 2019		818372083-8
Leptonic decays of the charged pseudoscalar mesons using Instanton	Bhoomika Pandya, Manan Shah, P. C. Vinodkumar	Physical Sciences	DAE-BRNS	Dec. 2019		818372083-8
Mass spectra and Decay widths of dimesonic hadron molecules	P. C. Vinodkumar, Tanvi Bhavsar, Manan Shah, Smruti Patel	Physical Sciences	DAE-BRNS	Dec. 2019		818372083-8
Allelopathic Effect of <i>Amaranthus Viridis</i> .L Fresh Leaves on Chickpea Seeds Under in Vivo Condition	Sheeba Menon Janki N Thakker	PDPIAS	Research and Reviews: A journal of Biotechnology	2019	2231-3826	

JULY-Dec 2020

3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years (15)

3.4.5.1: Number of research papers in the Journals notified on UGC website during the last five years

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
Diameter and strain dependent structural, electronic and optical properties of gallium phosphide	Trupti K. Gajaria, Shweta D. Dabhi, and Prafulla K. Jha	PDPIAS	Lambert Academic publishing	2019	ISBN: 978-0-7354-1851-6	
Superior Electrochemical Activity of CdSe Thin Film by Chromium	PAYAL CHAUHAN, G. K. SOLANKI, C K SUMESH ; ALKESHBHAI BHIKHABHAI	CIPS	Journal of Alloys and Compounds	2020	0925-8388	https://doi.org/10.1016/j.jallcom.2020.158016
Silica anchored colloidal suspension of magnetite nanorods	(MAIN) OS - NIDHI RUPARELIA, P D PATEL INSTITUTE OF APPLIED SCIENCES, CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY; (CORR) CE - RUCHA PRADIPKUMAR DESAI (3025),	PDPIAS	Journal of Solid State Chemistry	2020	0022-4596	10.1016/j.jssc.2020.121574
Biosynthesis of magnetite nanoparticles: An eco-friendly and scalable approach	(MAIN & CORR) CE - KINNARI HARSUMANBHAI PAREKH (606), CHARUSAT; (CO) CS - NAIR	KARDLE	Advances in Natural Sciences: Nanoscience and	2020	2043-6262	https://doi.org/10.1088/2043-6254/aba896
Flexible paper based piezo-resistive sensor functionalised by 2D-WSe ₂	(MAIN & CORR) OS - PRATIK, PDPIAS, CHARUSAT; (CO) CE - DR C K	PDPIAS	Nanotechnology	2020	1361-6528	https://doi.org/10.1088/1361-6528/aba4cd
Life-Cycle Evaluation of Anisotropic Particle-Based Magnetorheological Fluid in MR Brake Performance	(MAIN) CS - PATEL SACHINKUMAR RAMESHBHAI (15DRNST001), CHARUSAT; (CORR) CE - DR.R V	PDPIAS	Brazilian Journal of Physics	2020	0103-9733	https://doi.org/10.1007/s13538-020-00781-8
In vitro hyperthermic effect of magnetic fluid on cervical and breast cancer cells	(MAIN) CS - BHARDWAJ ANAND (17DRNST003), CHARUSAT; (CORR) CE - DR.NEERAJ DEVENDRA JAIN (3023),	PDPIAS	Scientific Reports	2020	2045-2322	https://doi.org/10.1038/s41598-020-71552-3

Controllability of ferrofluids' dielectric spectrum by means of external electric forces	(MAIN & CORR) ON - MICHAL RAJNAK, INSTITUTE OF EXPERIMENTAL PHYSICS SAS;; (CO) CE - DR.R V UPADHYAY (3008), CHARUSAT; (CO) CE - KINNARI HARSUMANBHAI PAREKH (606), CHARUSAT; (CO) ON - KATARINA PAULOVICOVA, INSTITUTE OF EXPERIMENTAL PHYSICS SAS;; (CO) ON - PETER KOPCANSKY, INSTITUTE OF EXPERIMENTAL PHYSICS SAS;; (CO) ON - MILAN TIMKO, INSTITUTE OF EXPERIMENTAL PHYSICS SAS;; (CO) ON -	KARDLE	J. Phys. D: Appl. Phys.	2020	1361-6463	https://doi.org/10.1088/1361-6463/abbeb6
Repurposing distillation waste biomass and low-value mineral resources through biochar-mineral-complex for sustainable production of high-value	(MAIN) CE - ATANU BANERJEE (5008), CHARUSAT; (CORR) ON - B.B.BASAK, INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR) DEPT. OF	KARDLE	Science of The Total Environment	2020	1879-1026	https://doi.org/10.1016/j.scitotenv.2020.143319
Contribution of the positional and orientational ordering in anisotropic particles based MR fluids:Static and	(MAIN & CORR) CE - KINNARI HARSUMANBHAI PAREKH (606), CHARUSAT; (CO) CE - DR.R V	KARDLE	Rheologica Acta	2020	1435-1528	https://doi.org/10.1007/s00397-020-01251-3
Optimization of Design Parameters Affecting the Performance of a Magnetic Fluid Rotary Seal	(MAIN & CORR) CS - PARMAR SAURABHSINH DIPAKSINH (15DRNST002), CHARUSAT; (CO) CE -	KARDLE	Arabian Journal for Science and Engineering	2020	2191-4281	https://doi.org/10.1007/s13369-020-05094-1
Rhenium substitutional doping for enhanced photoresponse of n-SnSe ₂ /p-Si heterojunction based tunable and high-performance visible-light	(MAIN & CORR) OT - G K SOLANKI, S P UNIVERSITY; (CO) CE - DR C K SUMESH (481), CHARUSAT	PDPIAS	Applied Surface Science	2020	016-9433	https://doi.org/10.1016/j.apsusc.2020.147739
Enhanced Antifungal Activity of WS ₂ /ZnO Nanohybrid against Candida albicans	(MAIN & CORR) CE - DR C K SUMESH (481), CHARUSAT; (CO) CS - PATEL MESWA HARSHADKUMAR (18DRNST002), CHARUSAT; (CO) CS -	PDPIAS	ACS Biomaterials Science & Engineering	2020	2373-9878	https://dx.doi.org/10.1021/acsbmaterials.0c00786

Plasmon-enhanced photoresponse in Ag-WS ₂ /Si heterojunction	(MAIN & CORR) CE - DR C K SUMESH (481), CHARUSAT; (CO) CS - PATEL MESWA HARSHADKUMAR (18DRNST002), CHARUSAT; (CO) OS -	PDPIAS	Applied Surface Science	2020	016-9433	https://doi.org/10.1016/j.apsusc.2020.148121
Highly sensitive and flexible pressure sensor based on two-dimensional MoSe ₂ nanosheets for online wrist pulse monitoring	(MAIN) OS - PRATIK PATANIA, CHARUSAT; (CORR) CE - DR C K SUMESH (481), CHARUSAT; (CO) OS - SANJAY A. BHAKHAR, S P UNIVERSITY; (CO) OS - MOHIT TANNARANA, DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY, VALLABH VIDYANAGAR 388120, GUJARAT, INDIA; (CO) OS - CHETAN ZANKAT, DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY, VALLABH VIDYANAGAR 388120, GUJARAT, INDIA; (CO) OS - VIKAS PATEL, SOPHISTICATED INSTRUMENTATION CENTRE FOR APPLIED RESEARCH AND TESTING (SICART), VALLABH VIDYANAGAR, ANAND, GUJARAT 388	PDPIAS	Journal of Colloid and Interface Science	2020	0021-9797	https://doi.org/10.1016/j.jcis.2020.10.006

Self-powered photodetector based on SnSe ₂ /MoSe ₂ heterostructure	(MAIN) OS - CHETAN K. ZANKAT, DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY; (CORR) OT - PRATIK PATANIA, CHARUSAT; (CO) CE - DR C K SUMESH (481), CHARUSAT; (CO) OS - ABHISHEK PATEL, DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY; (CO) OS - SANJAY A. BHAKHAR, DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY; (CO) OS - SOM NARAYAN, DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, M.S. UNIVERSITY OF BARODA, VADODARA, 39000, INDIA; (CO) OT - P K JHA, DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE,	PDPIAS	Materials Today Energy	2020	246-8606	https://doi.org/10.1016/j.mtener.2020.100550
Photosensitive WS ₂ /ZnO Nano-Heterostructure-Based Electrocatalysts for Hydrogen Evolution Reaction	(MAIN) OS - PRATIK PATANIA, CHARUSAT; (CORR) CE - DR C K SUMESH (481), CHARUSAT; (CO) OT - DATTATRAY LATE, CENTRE FOR	PDPIAS	ACS Applied Energy Materials	2020	2574-0962	https://dx.doi.org/10.1021/acsaem.0c02608
In-silico identification of adsorbent for separation of ethane/ethylene mixture	(MAIN) CS - SOLANKI VIRAL ANILBHAI (17DRNST002), CHARUSAT; (CORR) CE -	PDPIAS	Journal of Molecular Modeling	2020	0948-5023	10.1007/s00894-020-04612-0
Computational screening of metal-organic framework structures for separation of propane/propene mixture	(MAIN) CS - SOLANKI VIRAL ANILBHAI (17DRNST002), CHARUSAT; (CORR) CE - DR. BHASKARJYOTI BORAH (3054),	PDPIAS	Molecular Simulation	2020	1029-0435	10.1080/08927022.2020.1822528
The synthesis and characterization of Zn(II)/Cd(II) based MOFs by a mixed ligand strategy: a Zn(II) MOF as a dual functional material for reversible dye adsorption and as a heterogeneous	(MAIN) CS - PATEL UNNATI DIPAKKUMAR (16DRCHE001), CHARUSAT; (CORR) CE - ABHISHEK NATHALAL DADHANIA (3049), CHARUSAT; (CO) OS - BHAVESH	AOC	MATERIALS CHEMISTRY FRONTIERS	2020	2052-1537	10.1039/d0qm00611d
Chaos in a three-cell population cancer model with variable-order fractional derivative with power, exponential and Mittag-Leffler memories	(MAIN) CE - KRUNALKUMAR BHUPENDRABHAI KACHHIIA (878), CHARUSAT; (CORR) OT - J.F. GÓMEZ-AGUILAR, CONACYT-TECNOLÓGICO	PDPIAS	Chaos, Solitons and Fractals	2020	0960-0779	NA

Fractional electromagnetic waves in plasma and dielectric media with Caputo generalized fractional derivative	(MAIN) CS - BHANGALE NIKITABEN PRADIPBHAI (17DRMTH002), CHARUSAT; (CORR) CE -	PDPIAS	Revista Mexicana de Física	2020	0035-001x	https://doi.org/10.31349/RevMexFis.66.848
The p-deformed Generalized Humbert Polynomials and Their Properties	(MAIN & CORR) CE - RAJESH VASANTBHAI SAVALIA (876), CHARUSAT; (CO) OT - DR. B. I. DAVE,	PDPIAS	Kyungpook Mathematical Journal	2020	1225-6951	https://doi.org/10.5666/KMJ.2020.60.4.731
Towards efficient photon management in nanostructured solar cells: Role of 2D layered transition metal dichalcogenide	C. K. Sumesh	Physical Sciences	Solar Energy Materials & Solar Cells	17-Dec-18	0927-0248	https://www.scopus.com/sourceid/13332
Effect of Vowels and Consonants in Psycholinguistic differentiation of South Indian Dravidian words using relative	(MAIN) CE - RADHIKA BHAT (2065), CHARUSAT; (CORR) CE - ANOOP RAVINDRANATH MARKANDE (3122),	IIIM	Jadavpur Journal of Languages and Linguistics	2020	2581-494X	NA
Need for guidance and counselling among University students of Kheda region, Gujarat, India	(MAIN) CE - RADHIKA BHAT (2065), CHARUSAT; (CORR) CE - ANOOP RAVINDRANATH MARKANDE (3122),	IIIM	The International Journal of Indian Psychology	2020	2348-5396	10.25215/0803.088
Blocking integrin $\alpha 4\beta 7$ -mediated CD4 T cell recruitment to the intestine and liver protects mice from western diet-induced non-alcoholic steatohepatitis	(MAIN) ON - RAVI P. RAI, UNIVERSITY OF PITTSBURGH; (CORR) OT - REBEN RAEMAN, UNIVERSITY OF PITTSBURGH; (CO) CE - CHIRAYU RAMESHCHANDRA DESAI (3060), CHARUSAT; (CO) ON - YUNSHAN LIU, EMORY UNIVERSITY; (CO) ON - BIKI GUPTA, UNIVERSITY OF PITTSBURGH; (CO) ON - PRADEEP KUMAR, EMORY UNIVERSITY; (CO) ON - TEKLA SMITH, EMORY UNIVERSITY; (CO) OT - AATUR D. SINGHI, UNIVERSITY OF PITTSBURGH; (CO) OT - ASMA NUSRAT,	PDPIAS	Journal of Hepatology	2020	0168-8278	https://doi.org/10.1016/j.jhep.2020.05.047
Role of advanced glycation end products and insulin resistance in	(MAIN) CS - PARWANI KIRTI DILIP (14DRBIO001), CHARUSAT; (CORR) CE -	PDPIAS	Archives of Physiology and	2020	1744-4160	https://doi.org/10.1080/13813455.2020.17971

Degradation and Toxicity Analysis of a Reactive Textile Diazo Dye-Direct Red 81 by Newly Isolated Bacillus sp. DMS2	(MAIN) OS - SHIVANI AMIN, POST-GRADUATE DEPARTMENT OF BIOSCIENCES, UGC-CENTRE OF ADVANCED STUDY, SARDAR PATEL UNIVERSITY; (CORR) OT - DATTA MADAMWAR, P.D. PATEL INSTITUTE OF APPLIED SCIENCES, CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY; (CO) CE - CHIRAYU RAMESHCHANDRA DESAI (3060), CHARUSAT; (CO) ON - KUNAL JAIN, POST-GRADUATE DEPARTMENT OF BIOSCIENCES, UGC-CENTRE OF	PDPIAS	Frontiers in Microbiology	2020	1664-302X	10.3389/fmicb.2020.576680
Polycyclic Aromatic Hydrocarbons: Sources, Toxicity, and Remediation Approaches	(MAIN) OS - AVANI BHARATKUMAR PATEL, POST GRADUATE DEPARTMENT OF BIOSCIENCES, UGC CENTRE OF ADVANCED STUDY, SARDAR PATEL UNIVERSITY; (CORR) CE - CHIRAYU RAMESHCHANDRA DESAI (3060), CHARUSAT; (CO) CS - SHAIKH SHABNAMBANU ABDULSATTARBHAI	PDPIAS	Frontiers in Microbiology	2020	1664-302X	https://doi.org/10.3389/fmicb.2020.562813
Characterizing the bacterial consortium ASDF capable of catabolic degradation of fluoranthene and other mono- and poly-aromatic hydrocarbons Sagar S.	(MAIN & CORR) OT - PROF. DATTA MADAMWAR, POST GRADUATE DEPARTMENT OF BIOSCIENCES, UGC CENTRE OF ADVANCED STUDY,	PDPIAS	3 Biotech	2020	2190-572X	https://doi.org/10.1007/s13205-020-02478-w
Interactive potential of Pseudomonas species with plants	(MAIN & CORR) CE - ANOOP RAVINDRANATH MARKANDE (3122), CHARUSAT; (CO) OS - SUHANA SHAIKH, NAGINDAS HIRALAL BHAYANI, ANKLESHWAR, GUJARAT, INDIA; (CO)	PDPIAS	Journal of Applied Biology & Biotechnology	2020	2347-212X	10.7324/JABB.2020.80616

ROOT ASSOCIATED BACTERIAL ENDOPHYTES FROM POACEAE PLANTS: IDENTIFICATION, CHARACTERIZATION AND PLANT GROWTH PROMOTION	(MAIN & CORR) CE - JANKIBEN KIRITBHAI PATEL (3125), CHARUSAT	PDPIAS	JOURNAL OF MICROBIOLOGY, BIOTECHNOLOGY AND FOOD SCIENCES	2020	1338-5178	10.15414/jmbfs.2020.1 0.3.478-483
ELICITATION OF PLANT DEFENSE AGAINST FUSARIUM OXYSPOURUM F.SP. CICERIS IN CHICKPEA PLANT USING MARINE MICROCOCCUS SP.	(MAIN & CORR) CE - JANKI N THAKKER (3002), CHARUSAT; (CO) CS - PATEL KEYUR BHUPENDRABHAI (14DRBIO003), CHARUSAT; (CO) CS -	PDPIAS	The Journal of Microbiology, Biotechnology and Food Sciences	2020	1338-5178	10.15414/jmbfs.2020.1 0.3.361-365