

#### Annexure 4

#### 1. No.of Publication with DST FIST Facilities:

#### Chemistry

Sl. No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional /state/National/ International	Journal Name with ISBN/ISSN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
1	Sarika S, <i>S.Rijith</i>	2020	Transition metal mixed oxide-embedded graphene oxide bilayers as an efficient electrocatalyst for optimizing hydrogen evolution reaction in alkaline media.	44, 13889-13901	International	New J. Chem.,RS C	yes	3.45	Yes
2	S.Sarika, <b>S.Abhilash</b> , V.S.Sumi, <b>S.Rijith</b>	2021	Graphene oxide supported transition metal mixed oxide nanourchins onto bimetallic phosphide coatings as high performance hydrogen evolution electrodes in alkaline media	875, 160033	International	Journal of Alloys and Compounds	yes	4.65	yes

## Zoology

Sl. No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional /state/National/ International	Journal Name with ISBN/ISSN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
1.	Munisha Murali S. and S. Sheeba	2020	Diversity, population and spatio-temporal variations in the benthic invertebrates of Sasthamkotta lake in Southern Kerala, India.	26 (2) : 405-409	International	<i>Eco. Env. &amp; Cons</i>	Yes	0.49	Yes
2.	Munisha Murali S. and S. Sheeba	2020	Hydrography and Sedimentology of Sasthamkotta Lake in Southern Kerala, India.	39 (2) : 271-281	International	<i>Poll Res.,</i>	Yes	0.52	Yes
3.	Sulekha B T and T. V. Anna Mercy.	2019	Histopathology as a Tool to Characterize the Health Status of Fish in Contaminate Ecosystem	Vol. 8. 1&2. 40-54		<i>Science Chronicle</i> ISSN : 2319-6955.			
4.	Munisha Murali S. Sheeba, S. and Madhusodanan P.G	2019	. Appraisal on the- microbial pollution status of Sasthamkotta Lake, Kerala, India	7: 127-133.		<i>Journal of Aquatic Biology &amp; Fisheries.,</i>			
5.	Divya T. Dharan.	2019	Distribution of Fresh Water Fishes in	Volume 8, Issue 12319–		www.Sciencejournal.InISSN: 2319–474x (P)			

			Valiyakulam Pond, Neyyatinkara Thaluk, Kerala.	4758 (E)					
6.	Parvathy N., B. Hari and Jisha S	2019	The Effect of Addition of Propionic Acid Stabilised Fermented Fishery Waste as Biofertilizer in the Culture of Ornamental Fish- Guppy (Poeciliareticuat a),	pp 41-43		Proceedings of the International Seminar on Blue Growth Initiative: Sustainable Fishery Development Strategies and Advanced Technologies for Aquaculture (BISFAA 2019), August 7th- 9th, 2019, Editors. Sherly Williams, E, Organised by PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam, Kerala, India, Supported by KMML, Matsyafed, KSCSTE, ISBN 978-93-5382-468-6.			
7.	Jisha S., and B. Hari	2019	Benthic Microalgal Diversity of Ayiramthengu Mangroves and their Ecological Role,	80-83		Proceedings of the International Seminar on Blue Growth Initiative: Sustainable Fishery Development Strategies and Advanced Technologies for Aquaculture			

						(BISFAA 2019), August 7th- 9th, 2019, Editors. Sherly Williams, E, Organised by PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam, Kerala, India, Supported by KMML, Matsyafed, KSCSTE, ISBN 978-93-5382-468-6.			
8	Sulekha B. T. and T V Anna Mercy	2020	Biomarkers as Tools to Characterize the Contaminated Ecosystem.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
9	Jisha S M., Sulekha B T and Letty Titus	2020	An Income-wise Carbon footprint of three households in Kollam District, Kerala, India			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana			

						College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
10	Munisha Murali S. and Sheeba S.	2020	Natural Water Purification of Sasthamkotta Lake In Southern Kerala –A Reality Behind Myth And Science.			Proceedings of 32nd Kerala Science Congress, Mundoor, Palakkad. 110pp (ISBN NO : 978- 81-942768-0-7)			
11	Munisha Murali S and Sheeba S..	2020	Appraisal of Bacterial communities in the cradle of Sasthamkotta Lake in Southern Kerala, India.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
12	Munisha Murali S and Sheeba S	2020	A glance on the aquatic entomofauna of Sathamkottalake in southern Kerala.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			

13	Munisha Murali S and Sheeba S.	2020	Temporal distribution of microbial communities in the hydrological system of Sasthamkotta Lake in Southern Kerala, India.		Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
14	Amina Thaj, Munisha Murali S. and Sheeba.S. Kerala (ISBN NO: 978-93-5396-871-7).	2020	A comprehend to the wing scales of butterfly <i>Acraea terpsicore</i>		Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam,			
15	Amina Thaj, Munisha Murali S. and Sheeba.S.	2020	A preview on the wing scales of <i>Danus chrysippus</i> using light microscopy		Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-			

						5396-871-7).			
16	Amina Thaj, Munisha Murali S. and Sheeba.S.	2020	An exploration on the wing scale pattern of Euploeacore			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
17	Surya. A., Nidhisoman and Sheeba.S	2020	'Scales' The colourful powder y stuff responsible for the bogging pattern and clouration in Graphium agememnon.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree NarayanaCollege, Kollam, Kerala(ISBN NO: 978-93-5396-871-7).			
18	Nidhisoman, Surya. A., and Sheeba.S.	2020	A look into the tiny plates sheathing the flimsy wing of Amata passalis using Light microscopy.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of			

						Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
19	Nidhisoman, Surya. A., and Sheeba.S.	2020	A swot up on the furlike scales shrouding the Gossamery wings of Olepa ricini using Light microscopy.			Proceedings on the International Seminar on Current status and Challenges for Conservation and Sustainable use of Biodiversity. Department of Zoology, Sree Narayana College, Kollam, Kerala (ISBN NO: 978-93-5396-871-7).			
20	Munisha Murali S and Sheeba S.	2020	Natural Water Purification Of Sasthamkotta Lake In Southern Kerala –A Reality Behind Myth And Science.			Proceedings of 32nd Kerala Science Congress, Mundoor, Palakkad. 110pp			
21	Sheeba.S. Amala.M .S and Munisha Murali.S.	2019	Phyto and zooplankton □ abundance and community structure of Polachira wetland ecosystem in Southern Kerala, India.			Proceedings of the International Seminar on Blue Growth Initiative:Sustainable Fishery Development Strategies and Advanced Technologiesfor Aquaculture (BISFAA 2019). The PG &Research Department of			



						Zoology, Fatima Mata National College (Autonomous), Kollam, India.88-93.(ISBN: 978-93-5382-468-6).			
22	Sheeba S. and Munisha Murali S.	2019	Avian Diversity of Polachira wetland ecosystem in Southern Kerala.			National Seminar on Biodiversity Conservation, Department of Zoology, University of Kerala Kariavattom, Thiruvananthapuram			
23	Amina Thaj and Sheeba.S.	2019	Wing scale morphology of Swallo Tail Butterfly Graphium Sarpedon			National Seminar on Biodiversity Conservation, Department of Zoology, University of Kerala Kariavattom, Thiruvananthapuram			
24	Nidhisoman, Surya. A., and Sheeba.S.	2019	A delve into the powdery stuff blanketing the diaphanous wings of Oleparicini using light Microscopy			National Seminar on Biodiversity Conservation, Department of Zoology, University of Kerala Kariavattom, Thiruvananthapuram			
25	Nidhisoman, Surya. A., and Sheeba.	2019	A glimpse on the shimmering scales surfacing the gauzy wings			National Seminar on Biodiversity Conservation,			

	S.		of <i>Cydalima perspectalis</i> using light Microscopy.			Department of Zoology, University of Kerala Kariavattom, Thiruvananthapuram.			
26	Surya. A., Nidhisoman and Sheeba. S.	2019	Exploring the varied types of scale cells overlying the translucent wings of <i>Dysphania percotica</i> using Light microscopy.			International conference on Advanced innovation in Science Engineering and Technology Organized by Sree ayyappa College and Techown, Eramallikkara 8th -9th November 2019.			
27	Sheeba.S., Amala. M.S and Munisha Murali.S.	2019	Phyto and zooplankton abundance and community structure of Polachira wetland ecosystem in Southern Kerala India.,			Proceedings of the International Seminar on Blue Growth Initiative: Sustainable Fishery Development Strategies and Advanced Technologies for Aquaculture (BISFAA 2019). The PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam, India. 88-93.			

28	Sulekha B. T., Anju A. and Parvathy N..	2019	A Comparative Analysis of Haematological Parameters of two Teleost Fishes (Etroplussuraten sis and Epinephelusdiac anthus) in Ashtamudi Lake, Ramsar Site-1204.			Proceedings: Recent Trends in Bioremediation Protocols in Wetlands with Special Reference to Wetlands of South India.			
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**No. of publications other than FIST Facilities: 2019-20**

**Chemistry**

Sl . No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regi onal/ state/ Nati onal/ Inter nation al	Jour nal Nam e with ISB N/IS SN Num ber	Whether peer reviewed or non-peer reviewed	Impa ct Facto r	e- journa l or not
1	AS Achutha, VL Pushpa, KB Manoj,	2020	Comparat ive molecular docking studies of phytoche micals as Jak2 inhibitors using Autodock and ArgusLab	In press		Mate rials Toda y: Proce eding s, Elsev ier	yesindexe d	0.58	yes

2.	Fathima Riyaz, <b>Vadakkethi LalithaBha</b> <b>iPushpa,</b> Vidya Sukumaran	2020	Synthesis and characterization of nano NiZrO <sub>3</sub> for optical and dielectric applications	In press		Materials Today: Proceedings, Elsevier,	yes indexed	0.58	yes
3	S Sarithamol, <b>VL Pushpa,</b> V Divya, KB Manoj	2020	Comparative QSAR model generation using pyrazole derivatives for screening Janus kinase 1 inhibitors	95 (5)		Chemical Biology & Drug Design, Wiley	yes indexed	2.548	yes
4	V Divya, <b>VL Pushpa,</b> VR Sunitha, S Sarithamol, S Surendran, KB Manoj,	2019	A Pharmacogenomic approach for the identification and validation of genetic markers behind CDK4 amplification leading to Cancer	142-149		The Pharmainnovation	yes indexed		yes
5	V Divya, <b>VL Pushpa,</b> KB Manoj	2019	Cyclin dependent kinase 4 inhibitory activity of Thieno [2, 3-d]	1183		Journal of Molecular Structure	yes indexed	2.46	

			pyrimidin-4-ylhydrazones—Multiple QSAR and docking studies						
6	D Vasanthakumari, P Vadakkethil Lalithabhai, M Kanthimathi Bahuleyan,	2019.	An in silico approach to discover the best molecular modeling strategy for designing novel CDK 4 inhibitors	93 (4), 556-569		Chemical biology & drug design, Wiley	yesindexed	2.548	yes
7	<b>Nikhil Chandra P,</b> Mothi Krishna Mohan	2020	Tailor-Made Polyelectrolyte Multilayers for the Removal of Obidoxime from Water in Microfiltration Process	2(2)		Membranes and Membrane Technologies, Springer	yesindexed		yes
8	<b>Nikhil Chandra P,</b> Usha K, Mothi Krishna Mohan	2020	Design, development and characterization of polyelectrolyte multilayer membranes	In press		Materials Today: Proceedings, Elsevier	yesindexed	0.58	yes

			es for potential filtration applications						
9	<b>Nikhil Chandra P,</b> Usha K,	2020	Removal of atrazine herbicide from water by polyelectrolyte multilayer membranes	In press		Materials Today: Proceedings, Elsevier	yesindexed	0.58	yes
10	<b>Nikhil Chandra P,</b> Mothi Krishna Mohan	2020	Transport studies of ionic solutes through chitosan/chondroitin sulfate A (CHI/CS) polyelectrolyte multilayer membranes	1(2)		Nano Express, IOP	yesindexed		yes
11	<b>Devi B. R.;</b> Sandhya B	2020	Novel Multicomponent reaction involving isoquinoline, DMAD and isatlidens leading to the synthesis	In press		Materials Today: Proceedings, Elsevier	yesindexed	0.58	yes

			of Functiona lized Spiro- oxindoles						
12	<b>S Rijith, S Suma, Sumi V S</b>	2019	Synthesis and applicatio n of polymer- graftedna nocellulos e/graphen e oxide nano composite for the selective recovery of radionucli des fromaque ous media.	54 (9) 1453- 1468		Separ ation Scien ce and Tech nolog y, Tayl or & Franc is	yes indexed	1.72	yes
13	<b>Sarika S, S Rijith</b>	2020	Transition metal mixed oxide- embedded graphene oxide bilayers as an efficient electrocata lyst for optimizing hydrogen evolution reaction in alkaline media.	44, 13889- 13901		New J. Che m.,R SC	yesindexe d	3.29	yes
14	<b>TS Sreeremya</b>	2020	Effect of zirconia/s ilica	In press		Mate rials Toda	yes indexed	0.58	yes

			dopants on the thermally induced growth of sol gel synthesized cerium oxide nanoparticles,			y: Proceedings			
15	TS Anirudhan, JR Deepa, N Stanly	2019	Fabrication of a molecularly imprinted silylated graphene oxide polymer for sensing and quantification of creatinine in blood and urine samples	466, 28-39		Applied surface science, Elsevier	yesindexed	6.182	yes
16	JR Deepa, TS Anirudhan, GowriSoman, V ChithraSekhar	2020	Electrochemical sensing of methylmalonic acid based on molecularly imprinted polymer modified with graphene oxide and gold nanoparticles	159, 105489		Microchemical Journal, Elsevier	yesindexed	3.59	yes



17	R. Vishnupriya, M. Venkateshan, J. Suresh, <b>RV Sumesh</b> , RR Kumar and P LN Lakshman	<b>2019</b>	Crystal structure of 7'-(4-chlorophenyl)-2''-(4-methoxyphenyl)-7',7a',7'',8''-tetrahydro-1'H,3'H,5' 'H-di-spiro-[indole-3,5'-pyrrolo-[1,2-c]thiazole-6',6''-quinoline]-2,5''-dione and an unknown solvent	75, 189-193		Acta Cryst . E, IUCr	yesindexed		yes
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### Physics

Sl . No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional/state/National/International	Journal Name with ISB N/IS SN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
1	Smitha S, Nisha J Tharayil	2019	Synthesis and characterization of			AIP		0.48	

			FeO-MnO Magnetic Nanoparticles Invitro Antioxidant and Antibacterial Studies						
2	Megha S, Dedhila Devadathan, V Baiju and R Raveendran	2019	Structural , Optical and Photocatalytic Degradation Studies of Polymer Based Fe <sub>2</sub> O <sub>3</sub> Nanocomposite,			IOP Conf. Series: Journal of Physics: Conf. Series		0.54	
3	Deepika R, Dedhila Devadathan, Rejani P and Raveendran R	2019	Structural and photocatalytic degradation studies of rice straw based MgO nanocomposite			IOP Conf. Ser.: Material Sci. Eng.		0.53	
4	P K Anjali Nambiar, Dedhila Devadathan, V Baiju and R Raveendran	2019	Structural and antibacterial studies of rice straw based ZnO nanocom			IOP Conf. Ser.: Material Sci. Eng.		0.53	

			posite						
5	K. Haruna, Veena S. Kumar, Y. Sheena Mary, S.A. Popoola, Renjith Thomas, M.S. Roxy, A.A. Al- Saadi	2019	Conformational profile, vibrational assignments, NLO properties and molecular docking of biologically active herbicide 1,1-dimethyl-3-phenylurea			Heliyon		0.432	

**2020-21**  
**Chemistry**

Sl. No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional/stat e/National/ International	Journal Name with ISBN/ISSN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
1	A. S. Achutha, V. L. Pushpa,* and Surendran Suchitra	2020	Theoretical Insights into the Anti-SARS-	Journal of proteome research,	4706 - 4717	indexed	yes	4.074	yes

			CoV-2 Activity of Chloroquine and Its Analogs and In Silico Screening of Main Protease Inhibitors	ACS					
2	S.Sarika, <b>S.Abhilash</b> , V.S.Sum, <b>S.Rijith</b>	2021	Synthesis and characterization of transition metal mixed oxide doped graphene embedded durable electrocatalyst for hydrogen evolution reaction	International Journal of Hydrogen Energy	Volume 46, Issue 30, Pages 16387-16403	indexed	yes	4.94	yes
3	S.Sarika, <b>S.Abhilash</b> , V.S.Sum, <b>S.Rijith</b>	2021	Graphene oxide supported transition metal mixed oxide nanourchins onto bimetallic phosphide coatings as high performance hydrogen evolution	Journal of Alloys and Compounds	Volume 875, 160033	indexed	yes	4.65	yes

			electrodes in alkaline media						
4	Sarika S, S <i>Rijith</i>	2020	Transition metal mixed oxide-embedded graphene oxide bilayers as an efficient electrocatalyst for optimizing hydrogen evolution reaction in alkaline media.	New J. Chem., RSC	44, 1388 9-1390 1	indexed	yes	3.45	yes
5	P. Preethalayam, E. Jijy, P. Prakash, S. C. Sarngadharan, A. Vijayan, K. V. Radhakrishnan and J. John	2020	Diazanorbornene: A Valuable Synthon towards Carbocycles and Heterocycles.	Eur. J. Org. Chem., Wiley	42, 6588	indexed	yes	2.889	yes
6.	J.R.Deepa, T.S.Anirudhan, Gowri SomanV., ChithraSekhar	2020	Electrochemical sensing of methylmalonic acid based on molecularly imprinted polymer modified with graphene oxide and	Microchemical Journal	Volume 159, 1054 89	indexed	yes	3.6	yes

			gold nanoparticles						
7.	AS Achutha, <b>VL Pushpa,</b> KB Manoj	2021	Comparative molecular docking studies of phytochemicals as Jak2 inhibitors using Autodock and ArgusLab	Materials Today: Proceedings, Science Direct	Volume 41, Part 3, 2021, Pages 711-716	indexed	yes	2.47	yes
8.	S.Suma, S.Seema, <b>S.V. Manoj,</b> V.S.Sumu, <b>S.Rijith</b>	2021	Synthesis and evaluation of Fe(III) embedded silanegrafted layered double hydroxide with reduced graphene oxide supported as an efficient adsorbent for V(V) and Se(IV) from aqueous system	Asian Journal of Chemistry	Vol. 33,6, 2021, 1309 - 1318	indexed	yes		yes
<b>Botany</b>									

Sl. No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional/stat e/National/ International	Journal Name with ISBN/ISSN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
1	Latha Sadanandan and Mammen Daniel	2021	Studies on the Allelopathic effects of two social forestry trees on <i>Triticum aestivum</i> var. Lok1.	34(6): 118 – 125.	National	Gorteria Journal ISSN: 0017-2294	Yes		Yes
2	Asmi I, Vilash V.	2020	Macro-microscopic and physicochemical evaluations of <i>Tinospora crispa</i> (L.) Hook. f. & Thomson stem	07 (1&2): 47- 54.	National	Journal of Traditional and Folk Practices ISSN 2278	Yes		Yes

**Physics**

Sl. No.	Name of Author/s	Year	Title of the paper	Volume & Page No.	Regional/stat e/National/ International	Journal Name with ISBN/ISSN Number	Whether peer reviewed or non-peer reviewed	Impact Factor	e-journal or not
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1	Veena S. Kumar a , Y. Sheena Mary b , *, Y. Shyma Mary b , Goncagül Serdaro çglu c , Ali Shokuhi Rad d , M.S. Roxy a , P.S. Manjula e , B.K. Sarojini	2021	Conformational analysis and DFT investigations of two triazole derivatives and its halogenated substitution by using spectroscopy , AIM and Molecular docking			Chemical Data Collections		0.94	Yes
2	KB Manu, S Anupama and S Vidya	2021	Low temperature co-fired ceramic application of nano SnMo2O8 synthesised via modified combustion technique			Materials Today: Proceedings		0.97	Yes
3	VIBHUTS and ARUN S PRASAD	2021	Crystallographic and micro-structural investigations in C-phase spinels of CuFe2O4 synthesized through C12H22O11 .H2O mediation			Micron		1.726	Yes
4	Baiju V, Dedhila Devadathan, Sajeevkumar G and	2020	PANI based metal oxide nanocomposite-A novel material for water			Advances in Nanoscience and Nanotechnology		0.584	Yes



	Raveendra n R		purification						
5	Anukrishna, Smitha S, Nisha J Tharayil	2020	Effect of Temperature on Structural and Optical Properties of Green Synthesized Lanthanum Oxide Nanoparticles			AIP		0.48	Yes
6	Prabhajyoti PS, Nisha Tharayil	2020	Crystal Plane Effect on Anti oxidant Efficacy of nano Ceria Synthesized with Assistance of DNA			J. Physics and Chemistry of Solids		1.2	Yes
7	Veena S. Kumar, Y. Sheena Mary, Kiran Pradhan, Dhiraj Brahman, Y. Shyma Mary, Renjith Thomas, M.S. Roxy, C. Van Alsenoy	2020	Synthesis, spectral properties, chemical descriptors and light harvesting studies of a new bioactive azo imidazole compound			Journal of Molecular Structure		2.011	Yes
8	K. Haruna, Veena S. Kumar, Sanja J. Armaković, Stevan Armaković	2020	Spectral characterization, thermochemical studies, periodic SAPT			Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy		2.931	Yes

	ć, Y. Sheena Mary, Renjith Thomas, Saheed A. Popoola, A.R. Almohammedi, M.S. Roxy, A.A. Al-Saadi		calculations and detailed quantum mechanical profiling various physicochemical properties of 3,4 dichlorodiuon						
9	Veena S. Kumar, Y. Sheena Mary, Kiran Pradhan, Dhiraj Brahman, Y. Shyma Mary, Goncagül Serdaroglu, Ali Shokuhi Rad, M.S. Roxy	2020	Conformational analysis and quantum descriptors of two new imidazole derivatives by experimental, DFT, AIM, molecular docking studies and adsorption activity on graphene			Heliyon		0.432	Yes
10	VIBHUTS and ARUN S PRASAD	2020	Lactose monohydrate (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> • H <sub>2</sub> O) mediated synthesis and spectral analysis of nanocrystalline Ni <sub>0.5</sub> Cu <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub>			International Journal of Materials Research		0.787	Yes
11	Prabhajyothi PS, B Anitha, Smitha S,	2020	DNA Assisted Synthesis of Nanoceria,			Bulletin of Material Science		0.5	Yes

	Vibitha BV, Anukrishna PG, Nisha Tharayil		Its Size Dependent Structural and Optical Properties for Optoelectronic Applications						
11	KH Praveen, Arun S Prasad	2020	Hesperidin mediated synthesis, structure and optical emission analysis on nanocrystalline CuO			Materials Today: Proceedings		0.304	Yes
12	KH Praveen, Arun S Prasad	2020	Chrysin mediated synthesis, crystallographic structure and optical emission characteristics of ZnO nanoparticles			Materials Today: Proceedings		0.304	Yes
13	Fathima Riyas, VL Pushpa, Vidya S	2020	Synthesis and characterization of nano NiZrO <sub>3</sub> for optical and dielectric applications			International journal of materials research		0.787	Yes
<b>Zoology</b>									
<b>Sl. No</b>	<b>Name of Author/s</b>	<b>Year</b>	<b>Title of the paper</b>	<b>Volume &amp; Page No.</b>	<b>Regional/state/National/</b>	<b>Journal Name with ISBN/ISSN Number</b>	<b>Whether peer reviewed or non-</b>	<b>Impact Factor</b>	<b>e-journal or not</b>

					<b>International</b>		<b>peer reviewed</b>		
<b>1</b>	Divya P S & Benno Periera,.	2020	The Occurrence of Perchlorate Contaminati on in the Aquatic Environment of Kerala			Journal of Aquatic biology and fisheries, 8 33-39, ISSN: 2321-340X.			
<b>2</b>	Divya P S & Benno Periera,	2020	Perchlorate induced antioxidant enzymatic activity in a fish Rasbora dandia.			Journal of Xidian University:V olume 14, Issue 3 ,ISSN: 1001-2400.			
<b>3</b>	Divya P S & Benno Periera,.	2020	Stress response of an aquatic plant hydrilla verticellatato perchlorate (rocket fuel):			Journal of Information and computaciona l Science: 10(2)1275-1282, ISSN 1548-7741.			
<b>4</b>	Divya P S & Benno Periera	2020	A review of perchlorate toxicity in flora and fauna			Journal of Xidian UniversityVo lume 14, Issue 3, ISSN NO: 1001-2400			
<b>5</b>	Divya P S & Benno Periera,	2020	Histological changes observed in liver of a fish Rasbora dandia exposed to perchlorate.			Journal of Information and computaciona l Science: 10(3)1275-1282, ISSN 1548-7741			

6	Sheeja V U and Basil Rose M R.	2019	Biological role of the hemolymph lectin of the freshwater crab Travancoria nacharu.			International Journal of Life Sciences Research. ISSN 2348- 3148. Vol. 7. Issue 1. 1-8			
7	Sheeja V U and Basil Rose M R.,	2019	Characteriza tion of the agglutinin in the hepatopancreas of the freshwater crab Travancoria nacharu			International Journal of Scientific and Research Publications. ISSN 2250- 3153, Volume 9. Issue 1. 147- 153			
8	Sheeja V U and Basil Rose M R.	2019	Characteriza tion and purification of an agglutinin from the hemolymph of the crab Oziotelphus acf. hippocastan um,			International Journal of Research and Analytical Reviews (IJRAR) (E- ISSN 2348- 1269, P- ISSN 2349- 5138). Volume 5. Issue 4. 226- 230.			
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