

5. Question No.6 Number of research papers published in peer reviewed Journals with impact factor

Sl.No	Title	Authors	Journal Name	DOI	Impact Factor
1	Nanocellulose, a Versatile Green Platform: From Biosources to Materials and Their Applications	Thomas B., Raj M.C., Athira B.K., Rubiyah H.M., Joy J., Moores A., Drisko G.L., Sanchez C.	Chemical Reviews	10.1021/acs.chemrev.7b00627	54.301
2	Chitin nanowhisker inspired electrospun PVDF membrane for enhanced oil-water separation	Gopi S., Kargl R., Kleinschek K.S., Pius A., Thomas S.	Journal of Environmental Management	10.1016/j.jenvman.2018.09.039	4.865
3	Nanoceria Can Act as the Cues for Angiogenesis in Tissue-Engineering Scaffolds: Toward Next-Generation in Situ Tissue Engineering	Augustine R., Dalvi Y.B., Dan P., George N., Helle D., Varghese R., Thomas S., Menu P., Sandhyarani N.	ACS Biomaterials Science and Engineering	10.1021/acsbiomaterials.8b01102	4.511
4	Supramolecular framework of conjugated nitro-alkenes: Crystallographic and hirshfeld surface scan	Joy M., Joseph N., Mary V., Jose V., Sudarsanakumar C.	Journal of Molecular Structure	10.1016/j.molstruc.2018.07.033	2.12
5	Tailoring of nanostructured material as an electrochemical sensor and sorbent for toxic Cd(II) ions from various real samples	Aravind A., Mathew B.	Journal of Analytical Science and Technology	10.1186/s40543-018-0153-1	1.519
6	Eu ³⁺ activated terbium oxalate nanocrystals: A novel luminescent material with delayed concentration quenching and tunable multicolour emission	Alexander D., Thomas K., Sisira S., Jacob L.A., Gopi S., Kumar S A., Biju P.R., Unnikrishnan N.V., Joseph C.	Optical Materials	10.1016/j.optmat.2018.10.013	2.687
7	Biomass yield and biochemical profile of fourteen species of	Santhakumaran P., Kookal S.K., Ray J.G.	Biomass and Bioenergy	10.1016/j.biombioe.2018.09.021	3.537

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	fast-growing green algae from eutrophic bloomed freshwaters of Kerala, South India				
8	Electrochemical sensor based on nanostructured ion imprinted polymer for the sensing and extraction of Cr(III) ions from industrial wastewater	Aravind A., Mathew B.	Polymer International	10.1002/pi.5683	2.433
9	Mesoporous silica loaded caffeine inhibits inflammatory markers in lipopolysaccharide-activated rat macrophage cells	Babu M., Jerard C., Michael B.P., Suresh S., Ramachandran R.	Journal of Applied Pharmaceutical Science	10.7324/JAPS.2018.81214	3.197
10	Ionic liquid functionalised reduced graphene oxide fluoroelastomer nanocomposites with enhanced mechanical, dielectric and viscoelastic properties	Moni G., Mayeen A., Mohan A., George J.J., Thomas S., George S.C.	European Polymer Journal	10.1016/j.eurpolymj.2018.09.057	3.621
11	Novel core-shell dextran hybrid nanosystem for anti-viral drug delivery	Joshay K.S., George A., Snigdha S., Joseph B., Kalarikkal N., Pothan L.A., Thomas S.	Materials Science and Engineering C	10.1016/j.msec.2018.08.015	4.959
12	Structural, optical and dielectric properties of gadolinium incorporated laser ablated ZnO thin films	Vinodkumar R., Jeena V., Jiji V., S.K S., Unnikrishnan N.V.	Optik	10.1016/j.ijleo.2018.08.074	1.914
13	Nonlinear optical single crystal of L-Cystine hydrochloride: Insights into the crystalline perfection, thermal, mechanical and optical properties for device fabrication	Vij M., Sonia, Verma H.K., Jayalakshmy M.S., Singh B., Verma S., Maurya K.K.	Physica B: Condensed Matter	10.1016/j.physb.2018.09.013	1.874
14	Recent developments in nanocellulose-based biodegradable polymers, thermoplastic polymers, and porous nanocomposites	Kargarzadeh H., Huang J., Lin N., Ahmad I., Mariano M., Dufresne A., Thomas S., GaÅ,Å™ski A.	Progress in Polymer Science	10.1016/j.progpolymsci.2018.07.008	24.505

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15	In Situ Synthesis of Silver Nanospheres, Nanocubes, and Nanowires over Boron-Doped Graphene Sheets for Surface-Enhanced Raman Scattering Application and Enzyme-Free Detection of Hydrogen Peroxide	Nair A.K., Sukumaran Nair K.M., Thomas S., Rouxel D., Alwarappan S., Kalarikkal N.	Langmuir	10.1021/acs.langmuir.8b02005	3.683
16	Development of Thick Superhydrophilic TiO ₂ -ZrO ₂ Transparent Coatings Realized through the Inclusion of Poly(methyl methacrylate) and Pluronic-F127	Simon S.M., Chandran A., George G., Sajna M.S., Valparambil P., Kumi-Barmiah E., Jose G., Biju P.R., Joseph C., Unnikrishnan N.V.	ACS Omega	10.1021/acsomega.8b01940	2.584
17	Effect of inorganic ions on the ultrasound initiated degradation and product formation of triphenylmethane dyes	Rayaroth M.P., Aravind U.K., Aravindakumar C.T.	Ultrasonics Sonochemistry	10.1016/j.ultsonch.2018.07.009	7.279
18	Analysis of graphene films grown on copper foil at 845 Å°c by intermediate pressure chemical vapor deposition	Nalini S., Thomas S., Jayaraj M.K., Rajeev Kumar K.	Materials Research Express	10.1088/2053-1591/aadec4	1.449
19	Electrospun polyvinyl alcohol membranes incorporated with green synthesized silver nanoparticles for wound dressing applications	Augustine R., Hasan A., Yadu Nath V.K., Thomas J., Augustine A., Kalarikkal N., Moustafa A.-E.A., Thomas S.	Journal of Materials Science: Materials in Medicine	10.1007/s10856-018-6169-7	2.467
20	Green synthesized unmodified silver nanoparticles as a multi-sensor for Cr(iii) ions	Aravind A., Sebastian M., Mathew B.	Environmental Science: Water Research and Technology	10.1039/c8ew00374b	4.195
21	Protective effect of <i>Rotula aquatica</i> Lour against gentamicin induced oxidative stress and nephrotoxicity in Wistar rats	Vysakh A., Abhilash S., Kuriakose J., Midhun S.J., Jyothis M., Latha M.S.	Biomedicine and Pharmacotherapy	10.1016/j.biopha.2018.07.066	3.743

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22	Plasma Modified and Unmodified Polyethylene as Filler in Natural Rubber Compounds: Morphology, Cure Behavior and Vulcanization Kinetics	Sari P.S., Spatenka P., Anisimov E., Thomas S.	Macromolecular Symposia	10.1002/masy.201800135	0.68
23	Effect of MWCNTs on Wetting and Thermal Properties of an Immiscible Polymer Blend	Ajitha A.R., Aswathi M.K., Reghunadhan A., Mathew L., Terzano R., Thomas S.	Macromolecular Symposia	10.1002/masy.201800103	0.68
24	Selective Localization of MWCNT in Poly (Trimethylene Terephthalate)/Poly Ethylene Blends: Theoretical Analysis, Morphology, and Mechanical Properties	Aswathi M.K., Ajitha A.R., Padmanabhan M., Mathew L.P., Thomas S.	Macromolecular Symposia	10.1002/masy.201800104	0.68
25	Synthesis and Activity of Escherichia coli on Different Chitosan Nanoparticles	Thomas M.S., Jose J., Nandakumar K., Thomas S., Pothen L.A.	Macromolecular Symposia	10.1002/masy.201800106	0.68
26	Poly(ϵ -caprolactone)/Functionalized-Carbon Nanotube Electrospun Nanocomposites: Crystallization and Thermal Properties	Bicy K., Geethamma V.G., Kalarikkal N., Rouxel D., Thomas S.	Macromolecular Symposia	10.1002/masy.201800140	0.68
27	Growth and synthesis of Sr ₃ MgSi ₂ O ₈ :Dy ³⁺ nanorod arrays by a solid state reaction method	Dewangan P., Bisen D.P., Brahme N., Tamrakar R.K., Sharma S., Upadhyay K.	Optical and Quantum Electronics	10.1007/s11082-018-1634-6	1.547
28	Self-assembly and applications of amphiphilic hybrid block copolymers	Chi H., Wang M., Xiao Y., Wang F., Joshy K.S.	Molecules	10.3390/molecules23102481	3.06
29	Exploring the mechanism of diphenylmethanol oxidation: A combined experimental and theoretical approach	Menachery S.P.M., Nguyen T.P., Gopinathan P., Aravind U.K., Aravindakumar C.T.	Chemical Physics	10.1016/j.chemphys.2018.08.010	1.822
30	Differential modulation of phytoelemental composition by selected Pseudomonas spp.	Jayakumar A., Perinchery A., Jaffer F.M., Radhakrishnan E.K.	3 Biotech	10.1007/s13205-018-1400-2	1.786

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31	Heavy metal contamination in "chemicalized" green revolution banana fields in southern India	Sahodaran N.K., Ray J.G.	Environmental Science and Pollution Research	10.1007/s11356-018-2729-0	2.914
32	Poly(vinyl alcohol): Montmorillonite: Boiled rice water (starch) blend film reinforced with silver nanoparticles; characterization and antibacterial properties	Mathew S., Snigdha S., Mathew J., Radhakrishnan E.K.	Applied Clay Science	10.1016/j.clay.2018.05.009	3.89
33	Biofabricated silver nanoparticles incorporated polymethyl methacrylate as a dental adhesive material with antibacterial and antibiofilm activity against Streptococcus mutans	Thomas R., Snigdha S., Bhavitha K.B., Babu S., Ajith A., Radhakrishnan E.K.	3 Biotech	10.1007/s13205-018-1420-y	1.786
34	Nickel substituted cadmium ferrite as room temperature operable humidity sensor	Chethan B., Ravikiran Y.T., Vijayakumari S.C., Rajprakash H.G., Thomas S.	Sensors and Actuators, A: Physical	10.1016/j.sna.2018.08.017	2.739
35	Tree biomass and carbon density estimation in the tropical dry forest of southern western Ghats, India	Padmakumar B., Sreekanth N.P., Shanthiprabha V., Paul J., Sreedharan K., Augustine T., Jayasooryan K.K., Rameshan M., Mohan M., Ramasamy E.V., Thomas A.P.	IForest	10.3832/ifor2190-011	1.419
36	Simple unmodified green silver nanoparticles as fluorescent sensor for Hg(II) ions	Sebastian M., Aravind A., Mathew B.	Materials Research Express	10.1088/2053-1591/aad317	1.449
37	Development and Modification of Cellulose Acetate/Carboxy Methyl Cellulose Blend Films for Enhanced Adsorption of Methylene Blue	Gopi S., Balakrishnan P., Pius A., Thomas S.	Macromolecular Symposia	10.1002/masy.201800107	0.68

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38	Cellulose Nanofiber vs Nanocrystals From Pineapple Leaf Fiber: A Comparative Studies on Reinforcing Efficiency on Starch Nanocomposites	Balakrishnan P., Gopi S., Geethamma V.G., Kalarikkal N., Thomas S.	Macromolecular Symposia	10.1002/masy.201800102	0.68
39	Bayesian analysis of bulk viscous matter dominated universe	Sasidharan A., Mohan N.D.J., John M.V., Mathew T.K.	European Physical Journal C	10.1140/epjc/s10052-018-6105-5	4.843
40	Performance comparison of macromolecular assisted and immobilized low pressure membranes in the removal of toxic metals	Chandra N.P., Nair K.K., Aravind U.K.	Materials Research Express	10.1088/2053-1591/aad273	1.449
41	Augmented antimicrobial, antioxidant and catalytic activities of green synthesised silver nanoparticles	Vijayan R., Joseph S., Mathew B.	Materials Research Express	10.1088/2053-1591/aaaf33	1.449
42	Cellulose Nanomaterials in Biomedical, Food, and Nutraceutical Applications: A Review	Amalraj A., Gopi S., Thomas S., Haponiuk J.T.	Macromolecular Symposia	10.1002/masy.201800115	0.68
43	Biopolymers and Their Composites for Drug Delivery: A Brief Review	Gopi S., Amalraj A., Sukumaran N.P., Haponiuk J.T., Thomas S.	Macromolecular Symposia	10.1002/masy.201800114	0.68
44	Investigation of the mechanical, thermal and transport properties of NR/NBR blends: impact of organoclay content	Thomas S., Thomas S., Abraham J., George S.C., Thomas S.	Journal of Polymer Research	10.1007/s10965-018-1562-y	1.53
45	Terminalia bellirica (Gaertn.) Roxb fruit exerts anti-inflammatory effect via regulating arachidonic acid pathway and pro-inflammatory cytokines in lipopolysaccharide-induced RAW 264.7 macrophages	Jayesh K., Karishma R., Vysakh A., Gopika P., Latha M.S.	Inflammopharmacology	10.1007/s10787-018-0513-x	3.838

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46	Metal oxide nanoparticles in electrochemical sensing and biosensing: a review	George J.M., Antony A., Mathew B.	Microchimica Acta	10.1007/s00604-018-2894-3	5.479
47	Cobalt-catalyzed C-H activation: Recent progress in heterocyclic chemistry	Ujwaldev S.M., Harry N.A., Divakar M.A., Anilkumar G.	Catalysis Science and Technology	10.1039/c8cy01418c	5.726
48	Green silver nanoparticles as a multifunctional sensor for toxic Cd(ii) ions	Aravind A., Sebastian M., Mathew B.	New Journal of Chemistry	10.1039/c8nj03696a	3.069
49	Halogen bond shortens and strengthens the bridge bond of [1.1.1]propellane and the open form of [2.2.2]propellane	Joy J., Akhil E., Jemmis E.D.	Physical Chemistry Chemical Physics	10.1039/c8cp05125a	3.567
50	Correction: An effective EMI shielding material based on poly(trimethylene terephthalate) blend nanocomposites with multiwalled carbon nanotubes (New Journal of Chemistry (2018) 42 (13915-13926) DOI: 10.1039/C8NJ02410C)	Ajitha A.R., Mohammed Arif P., Aswathi M.K., Mathew L.P., Geethamma V.G., Kalarikkal N., Thomas S., Volova T.	New Journal of Chemistry	10.1039/c8nj90098a	3.069
51	Polysaccharide and Protein Based Aerogels: An Introductory Outlook	Mavelil-Sam R., Pothan L.A., Thomas S.	RSC Green Chemistry	10.1039/9781782629979-00001	9.405
52	Applications of Aerogels in Aerospace and Packaging	Chirayil C.J., Joy J., Mathew L., Thomas S.	RSC Green Chemistry	10.1039/9781782629979-00220	9.405
53	Green and facile approach to prepare polypropylene/: In situ reduced graphene oxide nanocomposites with excellent electromagnetic interference shielding properties	George G., Simon S.M., Prakashan V., Sajna M., Faisal M., Wilson R., Chandran A., Biju P.R., Joseph C., Unnikrishnan N.V.	RSC Advances	10.1039/c8ra05007d	3.049
54	Dendrimers: General aspects, applications and structural	Mariyam M., Ghosal K., Thomas S., Kalarikkal N., Latha M.S.	Mini-Reviews in Medicinal Chemistry	10.2174/1389557517666170512095151	2.842

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	exploitations as prodrug/drug-delivery vehicles in current medicine				
55	Highly lithium ion conductive, Al ₂ O ₃ decorated electrospun P(VDF-TrFE) membranes for lithium ion battery separators	Bicy K., Suriyakumar S., Anu Paul P., Anu A.S., Kalarikkal N., Stephen A.M., Geethamma V.G., Rouxel D., Thomas S.	New Journal of Chemistry	10.1039/c8nj01907j	3.069
56	In situ dose dependent gamma ray irradiated synthesis of PMMA-Ag nanocomposite films for multifunctional applications	Ghosal K., Agatemor C., Tucker N., Kny E., Thomas S.	New Journal of Chemistry	10.1039/C8NJ02684J	3.069
57	CHAPTER 1: Electrical Spinning to Electrospinning: A Brief History	James J., Thomas G.V., Pramoda K., Kalarikkal N., Thomas S.	RSC Soft Matter	10.1039/9781788012942-00001	3.399
58	Development of biocompatible and biofilm-resistant silver-poly(methylmethacrylate) nanocomposites for stomatognathic rehabilitation	Gopalakrishnan S., Mathew T A., MozetiÄ M., Jayachandran V.P., Jose J., Thomas S., Kalarikkal N.	International Journal of Polymeric Materials and Polymeric Biomaterials	10.1080/00914037.2018.1552863	2.263
59	Selected aryl thiosemicarbazones as a new class of multi-targeted monoamine oxidase inhibitors	Mathew B., Baek S.C., Parambi D.G.T., Pil Lee J., Joy M., Annie Rilda P.R., Randev R.V., Nithyamol P., Vijayan V., Inasu S.T., Mathew G.E., Lohidakshan K.K., Kumar Krishnan G., Kim H.	MedChemComm	10.1039/c8md00399h	2.394
60	Do hydrogen bonding and noncovalent interactions stabilize nicotinamide-picric acid cocrystal supramolecular assembly?	Likhitha U., Narayana B., Sarojini B.K., Lobo A.G., Sharma G., Pathania S., Kant R.	Journal of Molecular Structure	10.1016/j.molstruc.2019.06.037	2.12
61	Reduced Graphene Oxide/ZnO Nanorods Nanocomposite: Structural, Electrical and Electrochemical Properties	Chaudhary S., James L.S., Kiran Kumar A.B.V., Ramana C.V.V., Mishra D.K., Thomas S., Kim D.	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-019-01172-6	1.637
62	Recent Trends in the Silver-Catalyzed Synthesis of Nitrogen	Sreedevi R., Saranya S., Anilkumar G.	Advanced Synthesis and Catalysis	10.1002/adsc.201900599	5.451

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	Heterocycles				
63	Sol-gel synthesized plasmonic nanoparticles and their integration into dye sensitized solar cells	Kumar K.V.A., Balu A., Ramachandran A., Unnikrishnan N.V., Selvaraj N.B.	Applied Surface Science	10.1016/j.apsusc.2019.05.344	5.155
64	Novel white light emitting dysprosium oxalate nanocrystals: Competing luminescence quenching by the features of Dy-Oxalate layered structure	Alexander D., Thomas K., Manju Gopinath R.J., Joy M., Biju P.R., Unnikrishnan N.V., Joseph C.	Journal of Alloys and Compounds	10.1016/j.jallcom.2019.06.219	4.175
65	Green synthesis of silver nanoparticles using Nervalia zeylanica leaf extract and evaluation of their antioxidant, catalytic, and antimicrobial potentials		Particulate Science and Technology	10.1080/02726351.2018.1450312	1.424
66	Influence of MOF ligands on the electrochemical and interfacial properties of PEO-based electrolytes for all-solid-state lithium batteries	Vijayan R., Joseph S., Mathew B.	Electrochimica Acta	10.1016/j.electacta.2019.06.157	5.383
67	Polypyrrole based core-shell structured composite based humidity Sensor operable at room temperature	Chethan B., Prakash H.G.R., Ravikiran Y.T., Vijayakumari S.C., Thomas S.	Sensors and Actuators, B: Chemical	10.1016/j.snb.2019.126639	6.393
68	Yttrium oxide nanoparticle loaded scaffolds with enhanced cell adhesion and vascularization for tissue engineering applications	Augustine R., Dalvi Y.B., Yadu Nath V.K., Varghese R., Raghuvveeran V., Hasan A., Thomas S., Sandhyarani N.	Materials Science and Engineering C	10.1016/j.msec.2019.109801	4.959
69	Bio-epoxy resins with inherent flame retardancy	Rad E.R., Vahabi H., de Anda A.R., Saeb M.R., Thomas S.	Progress in Organic Coatings	10.1016/j.porgcoat.2019.05.046	3.42

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70	Bioprospecting of Three Rapid-Growing Freshwater Green Algae, Promising Biomass for Biodiesel Production	Santhakumaran P., Kookal S.K., Mathew L., Ray J.G.	Bioenergy Research	10.1007/s12155-019-09990-9	2.5
71	Super-hydrophobic graphene oxide-azobenzene hybrids for improved hydrophobicity of polyurethane	M K., Chi H., Li T., Wang H., Thomas S.	Composites Part B: Engineering	10.1016/j.compositesb.2019.10.6978	6.864
72	Excellent electromagnetic shield derived from MWCNT reinforced NR/PP blend nanocomposites with tailored microstructural properties	Poothanari M.A., Abraham J., Kalarikkal N., Thomas S.	Composites Part B: Engineering	10.1016/j.compositesb.2019.05.009	6.864
73	Tailor made biheterocyclic pyrazoline-thiazolidinones as effective inhibitors of Escherichia coli FabH: Design, synthesis and structural studies	Salian V.V., Narayana B., Sarojini B.K., Kumar M.S., Sharath Chandra K., Lobo A.G.	Journal of Molecular Structure	10.1016/j.molstruc.2019.04.105	2.12
74	Tailoring of photo-responsive molecularly imprinted polymers on multiwalled carbon nanotube as an enantioselective sensor and sorbent for L-PABE	Sajini T., John S., Mathew B.	Composites Science and Technology	10.1016/j.compscitech.2019.06.003	6.309
75	ESI-CID spectral characterization and differentiation of the cross links of thymine formed by one electron oxidation with SO ₄ ²⁻	Chandran J., Vishnu N.R., Aravind U.K., Aravindakumar C.T.	International Journal of Mass Spectrometry	10.1016/j.ijms.2019.05.001	1.658
76	Poly (Îµ-caprolactone) Microsphere Decorated with Nano-ZnO Based Phytoformulation: A Promising Antimicrobial Agent	Snigdha S., Rahul M., Kalarikkal N., Thomas S., Radhakrishnan E.K.	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-019-01114-2	1.637

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77	Effect of MA-g-PP compatibilizer on morphology and electrical properties of MWCNT based blend nanocomposites: New strategy to enhance the dispersion of MWCNTs in immiscible poly (trimethylene terephthalate)/polypropylene blends	Ramachandran A.A., Mathew L.P., Thomas S.	European Polymer Journal	10.1016/j.eurpolymj.2019.06.027	3.621
78	Starch-PVA composite films with zinc-oxide nanoparticles and phytochemicals as intelligent pH sensing wraps for food packaging application	Jayakumar A., K.V. H., T.S. S., Joseph M., Mathew S., G. P., Nair I.C., E.K. R.	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.06.018	4.784
79	Feature selection with centre of gravity method using ant colony optimization	Sekhar L.C., Vijayakumar R., Sabu M.K.	International Journal of Recent Technology and Engineering	10.35940/ijrte.B2887.098319	4
80	Chemical modification of graphene with grape seed extract: Its structural, optical and antimicrobial properties	Yaragalla S., Rajendran R., AlMaadeed M.A., Kalarikkal N., Thomas S.	Materials Science and Engineering C	10.1016/j.msec.2019.04.061	4.959
81	Mechanical performance of hybrid woven jute-rosette-reinforced polyester composites	Mohamad Hamdan M.H., Siregar J.P., Thomas S., Jacob M.J., Jaafar J., Tezara C.	Polymers and Polymer Composites	10.1177/0967391119847552	0.683
82	Status and future scope of plant-based green hydrogels in biomedical engineering	Mohammadinejad R., Maleki H., Larrañeta E., Fajardo A.R., Nik A.B., Shavandi A., Sheikhi A., Ghorbanpour M., Farokhi M., Govindh P., Cabane E., Azizi S., Aref A.R., Mozafari M., Mehrali M., Thomas S., Mano J.F., Mishra Y.K., Thakur V.K.	Applied Materials Today	10.1016/j.apmt.2019.04.010	8.013

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83	An insight into the comparative binding affinities of chlorogenic acid functionalized gold and silver nanoparticles with ctDNA along with its cytotoxicity analysis	Thomas R.K., Sukumaran S., Sudarsanakumar C.	Journal of Molecular Liquids	10.1016/j.molliq.2019.110911	4.561
84	Novel SPR based fiber optic sensor for vitamin A using Au@Ag core-shell nanoparticles doped SiO ₂ -TiO ₂ -ZrO ₂ ternary matrix	Prakashan V.P., Gejo G., Sanu M.S., Sajna M.S., Subin T., Biju P.R., Cyriac J., Unnikrishnan N.V.	Applied Surface Science	10.1016/j.apsusc.2019.04.055	5.155
85	Synthesis, structural and luminescence properties of Dy ³⁺ activated GdAlO ₃ phosphors by a solid state reaction method under a N ₂ atmosphere	Tiwari S., Tamrakar R.K., Upadhyay K., Robinson C.S.	Bulletin of Materials Science	10.1007/s12034-019-1876-3	1.264
86	Structural studies on transition metal ion complexes of polyethylene oxide-natural rubber block copolymers	Mrudula M.S., Tiwari N., Jha S.N., Bhattacharyya D., Nair M.R.G.	Journal of Polymer Research	10.1007/s10965-019-1837-y	1.53
87	Distribution and risk assessment of trace metals in multifarious matrices of Vembanad Lake system, Peninsular India	ShyleshChandran M.S., Ramasamy E.V., Mohan M., N S.S., Jayasooryan K.K., Augustine T., Mohan K.	Marine Pollution Bulletin	10.1016/j.marpolbul.2019.06.034	3.782
88	Compatibilising action of multiwalled carbon nanotubes in polycarbonate/polypropylene (PC/PP) blends: phase morphology, viscoelastic phase separation, rheology and percolation	Poothanari M.A., Xavier P., Bose S., Kalarikkal N., Komalan C., Thomas S.	Journal of Polymer Research	10.1007/s10965-019-1833-2	1.53
89	Thermal, biodegradation and theoretical perspectives on nanoscale confinement in starch/cellulose nanocomposite	Balakrishnan P., Geethamma V.G., Gopi S., Thomas M.G., Kunaver M., HuskiÄ¸ M., Kalarikkal N., Volova T., Rouxel	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.05.088	4.784

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	modified via green crosslinker	D., Thomas S.			
90	Optical Characteristics of Dy ³⁺ Ions in Alkali Fluoroborate Glasses for WLEDs	Gopi S., Remya Mohan P., Sreeja E., Unnikrishnan N.V., Joseph C., Biju P.R.	Journal of Electronic Materials	10.1007/s11664-019-07198-3	1.676
91	Quercetin binding to Spatholobus parviflorus lectin: Promise of a macromolecular, specific-compound carrier for drug	Sukumaran S., Haridas M., Sudarsanakumar C.	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.04.100	4.784
92	Development of oral-fluid-impervious and fracture-resistant silver-poly(methyl methacrylate) nanoformulations for intra-oral/extra-oral rehabilitation	Gopalakrishnan S., Raj I., Mathew T. A., Abraham J., Maria H.J., MozetiÄ M., Thomas S., Kalarikkal N.	Journal of Applied Polymer Science	10.1002/app.47669	2.188
93	Sm ³⁺ doped tetragonal lanthanum molybdate: A novel host sensitized reddish orange emitting nanophosphor	Thomas K., Alexander D., Sisira S., Jacob L.A., Biju P.R., Unnikrishnan N.V., Ittyachen M.A., Joseph C.	Journal of Luminescence	10.1016/j.jlumin.2019.03.045	2.961
94	Effect of particle size and dopant concentration on the Raman and the photoluminescence spectra of TiO ₂ :Eu ³⁺ nanophosphor thin films	Komaraiah D., Radha E., James J., Kalarikkal N., Sivakumar J., Ramana Reddy M.V., Sayanna R.	Journal of Luminescence	10.1016/j.jlumin.2019.03.050	2.961
95	Resolving the structure of organic nano strands self-assembled at a graphite-liquid interface using STM	Thomas L.K., Diek N., Beginn U., Reichling M.	Applied Surface Science	10.1016/j.apsusc.2019.03.072	5.155
96	Radio frequency plasma polymerized thin film based on eucalyptus oil as low dielectric permittivity, visible and near-infrared (NIR) photoluminescent material	Mol B., James J., Anoop K.K., Sulaniya I., Joseph C., Anantharaman M.R., Bushiri J.	Journal of Materials Science: Materials in Electronics	10.1007/s10854-019-01621-5	2.195

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98	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications	Augustine R., Hasan A., Patan N.K., Augustine A., Dalvi Y.B., Varghese R., Unni R.N., Kalarikkal N., Al Moustafa A.-E., Thomas S.	Macromolecular Bioscience	10.1002/mabi.201900058	2.895
99	Free volume defects and transport properties of mechanically stable polyhedral oligomeric silsesquioxane embedded poly(vinyl alcohol)-poly(ethylene oxide) blend membranes	Swapna V.P., Nambissan P.M.G., Thomas S.P., Vayyaprontavida Kaliyathan A., Jose T., George S.C., Thomas S., Stephen R.	Polymer International	10.1002/pi.5815	2.433
100	Single phased white light emitting Dy ³⁺ /Sm ³⁺ co-doped CePO ₄ nanocrystals for white light applications	Sisira S., Jacob L.A., Mani K.P., Biju P.R., Unnikrishnan N.V., Joseph C.	Journal of Materials Science: Materials in Electronics	10.1007/s10854-019-01483-x	2.195
101	Biomolecular assisted synthesis and mechanism of silver and gold nanoparticles	Samanta S., Agarwal S., Nair K.K., Harris R.A., Swart H.	Materials Research Express	10.1088/2053-1591/ab296b	1.449
102	Surface Plasmon Assisted Luminescence Enhancement of Ag NP/NWs-Doped SiO ₂ -TiO ₂ -ZrO ₂ :Eu ³⁺ Ternary System	Prakashan V.P., Sajna M.S., Gejo G., Sanu M.S., Saritha A.C., Biju P.R., Cyriac J., Unnikrishnan N.V.	Plasmonics	10.1007/s11468-018-0845-9	2.926
103	Administration of probiotic Paenibacillus polymyxa HGA4C induces morphometric, enzymatic and gene expression changes in Oreochromis niloticus	Midhun S.J., Arun D., Neethu S., Vysakh A., Radhakrishnan E.K., Jyothis M.	Aquaculture	10.1016/j.aquaculture.2019.04.061	3.022

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104	Novel processing parameters for the extraction of cellulose nanofibres (CNF) from environmentally benign pineapple leaf fibres (PALF): Structure-property relationships	Ravindran L., Sreekala M.S., Thomas S.	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.03.134	4.784
105	Beneficial Changes in Capsicum frutescens Due to Priming by Plant Probiotic Burkholderia spp.	Sabu R., Aswani R., Nidheesh K.S., Ray J.G., Remakanthan A., Radhakrishnan E.K.	Probiotics and Antimicrobial Proteins	10.1007/s12602-018-9438-3	2.962
106	Effect of starch reduced graphene oxide on thermal and mechanical properties of phenol formaldehyde resin nanocomposites	Sandhya P.K., Sreekala M.S., Padmanabhan M., Jesitha K., Thomas S.	Composites Part B: Engineering	10.1016/j.compositesb.2018.12.009	6.864
107	Plant Growth Enhancement, Disease Resistance, and Elemental Modulatory Effects of Plant Probiotic Endophytic Bacillus sp. Fcl1	Jayakumar A., Krishna A., Mohan M., Nair I.C., Radhakrishnan E.K.	Probiotics and Antimicrobial Proteins	10.1007/s12602-018-9417-8	2.962
108	Mechanical properties and pervaporation separation performance of CTAB-modified cage-structured POSS-incorporated PVA membrane	Swapna V.P., Thomas S.P., Jose T., Moni G., George S.C., Thomas S., Stephen R.	Journal of Materials Science	10.1007/s10853-019-03479-8	3.442
109	Epigenetic Modifier Based Enhancement of Piperine Production in Endophytic Diaporthe sp. PF20	Jasim B., Sahadevan N., Chithra S., Mathew J., Radhakrishnan E.K.	Proceedings of the National Academy of Sciences India Section B - Biological Sciences	10.1007/s40011-018-0982-0	0.396
110	In vitro and in silico docking studies of antibacterial compounds derived from endophytic Penicillium setosum	George T.K., Joy A., Divya K., Jisha M.S.	Microbial Pathogenesis	10.1016/j.micpath.2019.03.033	2.581

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112	Identification of Lead Molecules in <i>Garcinia mangostana</i> L. Against Pancreatic Cholesterol Esterase Activity: An In Silico Approach	Varghese G.K., Abraham R., Chandran N.N., Habtemariam S.	Interdisciplinary Sciences: Computational Life Sciences	10.1007/s12539-017-0252-5	1.418
113	Synthesis and characterization of interpenetrating polymeric networks based bio-composite alginate film: A well-designed drug delivery platform	Ghosal K., Das A., Das S.K., Mahmood S., Ramadan M.A.M., Thomas S.	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.02.117	4.784
114	Nanoparticle- and nanoporous-membrane-mediated delivery of therapeutics	Mabrouk M., Rajendran R., Soliman I.E., Ashour M.M., Beherei H.H., Tohamy K.M., Thomas S., Kalarikkal N., Arthanareeswaran G., Das D.B.	Pharmaceutics	10.3390/pharmaceutics11060294	4.773
115	Rational design and synthesis of photo-responsive molecularly imprinted polymers for the enantioselective intake and release of L-phenylalanine benzyl ester on multiwalled carbon nanotubes	Sajini T., Thomas R., Mathew B.	Polymer	10.1016/j.polymer.2019.04.031	3.771
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117	One-Pot Synthesis of Benzofurans via Cu ^{II} -Catalyzed Tandem Sonogashira Coupling-Cyclization Reactions	Thomas A.M., Asha S., Menon R., Anilkumar G.	ChemistrySelect	10.1002/slct.201900519	1.716

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119	Chitosan and polyvinyl alcohol nanocomposites with cellulose nanofibers from ginger rhizomes and its antimicrobial activities	Jacob J., Peter G., Thomas S., Haponiuk J.T., Gopi S.	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2019.02.052	4.784
120	Recent Trends in Iron-Catalyzed Reactions towards the Synthesis of Nitrogen-Containing Heterocycles	Sreedevi R., Saranya S., Rohit K.R., Anilkumar G.	Advanced Synthesis and Catalysis	10.1002/adsc.201801471	5.451
121	A Novel Ligand-free Manganese-catalyzed C-O Coupling Protocol for the Synthesis of Biaryl Ethers	Rohit K.R., Saranya S., Harry N.A., Anilkumar G.	ChemistrySelect	10.1002/slct.201901031	1.716
122	Effect of doping concentration and annealing temperature on the luminescence of novel orange red emitting CePO ₄ :Sm ³⁺ nanocrystals	Sisira S., Jacob L.A., Thomas K., Alexander D., Biju P.R., Unnikrishnan N.V., Joseph C.	Journal of Luminescence	10.1016/j.jlumin.2019.01.043	2.961
123	Structural and spectroscopic investigations on the quenching free luminescence of europium oxalate nanocrystals	Alexander D., Thomas K., Joy M., Biju P.R., Unnikrishnan N.V., Joseph C.	Acta Crystallographica Section C: Structural Chemistry	10.1107/S2053229619005059	4.36
124	Comparative Analysis of Processing Techniques™ Effect on the Strength of Carbon Black (N220)-Filled Poly (Lactic Acid) Composites	Rane A.V., Kanny K., Mathew A., Mohan T.P., Thomas S.	Strength of Materials	10.1007/s11223-019-00093-6	0.67
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126	Termite mounds impact soil hydrostructural properties in southern Indian tropical forests	Traoré S., Bottinelli N., Aroui H., Harit A., Jouquet P.	Pedobiologia	10.1016/j.pedobi.2019.02.003	1.833

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128	Lead accumulation, growth responses and biochemical changes of three plant species exposed to soil amended with different concentrations of lead nitrate	Chandrasekhar C., Ray J.G.	Ecotoxicology and Environmental Safety	10.1016/j.ecoenv.2018.12.058	4.527
129	Dietary supplementation of Bacillus licheniformis HGA8B improves growth parameters, enzymatic profile and gene expression of Oreochromis niloticus	Midhun S.J., Neethu S., Arun D., Vysakh A., Divya L., Radhakrishnan E.K., Jyothis M.	Aquaculture	10.1016/j.aquaculture.2019.02.064	3.022
130	Testing of Current Carrying Capacity of Conducting Tracks in High Power Flexible Printed Circuit Boards	Remesh Kumar K.R., Kumar K.S.	Journal of Electronic Testing: Theory and Applications (JETTA)	10.1007/s10836-019-05782-3	0.625
131	Isolation and characterization of stable nanofiber from turmeric spent using chemical treatment by acid hydrolysis and its potential as antimicrobial and antioxidant activities	Gopi S., Amalraj A., Jude S., Benson K.T., Balakrishnan P., Haponiuk J.T., Thomas S.	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry	10.1080/10601325.2019.1578613	1.163
132	Enhancement in alternating current conductivity of HCl doped polyaniline by modified titania	Megha R., Ravikiran Y.T., Vijaya Kumari S.C., Raj Prakash H.G., Ramana C.H.V.V., Thomas S.	Composite Interfaces	10.1080/09276440.2018.1499352	2.025
133	Dissymmetry Factor Spectral Analysis Can Provide Useful Diastereomer Discrimination: Chiral Molecular Structure of an Analogue of (-)-Crispine A	Johnson J.L., Nair D.S., Pillai S.M., Johnson D., Kallingathodi Z., Ibnusaud I., Polavarapu P.L.	ACS Omega	10.1021/acsomega.8b03678	2.584

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135	Biogenic Gold Nanoparticle Supplementation to Plant Beneficial <i>Pseudomonas monteilii</i> was Found to Enhance its Plant Probiotic Effect	Panichikkal J., Thomas R., John J.C., Radhakrishnan E.K.	Current Microbiology	10.1007/s00284-019-01649-0	1.595
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137	Theoretical design, synthesis and studies on the solvatochromic behaviour of low band gap phenylenevinylene based copolymers	Xavier S., Narayanan S., Anjali C.P., Sreekumar K.	European Polymer Journal	10.1016/j.eurpolymj.2019.01.071	3.621
138	Therapeutic angiogenesis: From conventional approaches to recent nanotechnology-based interventions	Augustine R., Prasad P., Khalaf I.M.N.	Materials Science and Engineering C	10.1016/j.msec.2019.01.006	4.959
139	High-performance electromagnetic interference shielding material based on an effective mixing protocol	Kunjappan A.M., Poothanari M.A., Ramachandran A.A., Padmanabhan M., Mathew L., Thomas S.	Polymer International	10.1002/pi.5751	2.433
140	Kinetic and thermodynamic studies of molecularly imprinted polymers for the selective adsorption and specific enantiomeric recognition of D-mandelic acid	Sajini T., Gigimol M.G., Mathew B.	Journal of Polymer Research	10.1007/s10965-019-1746-0	1.53
141	Distribution of antibiotic resistance and virulence factors among the bacteria isolated from	Ravi A., Das S., Basheer J., Chandran A., Benny C., Somaraj S., Korattiparambil Sebastian S.,	3 Biotech	10.1007/s13205-019-1654-3	1.786

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142	Corrosion inhibition of mild steel using chitosan / TiO ₂ nanocomposite coatings	John S., Salam A., Baby A.M., Joseph A.	Progress in Organic Coatings	10.1016/j.porgcoat.2019.01.025	3.42
143	White light emission by energy transfer from areca nut husk extract loaded with carbon dots synthesized from the same extract	Mathew J., Joy J., Kumar S A., Philip J.	Journal of Luminescence	10.1016/j.jlumin.2018.10.110	2.961
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145	Spectral, morphological and optical studies on bischalcone doped polylactic acid (PLA) thin films as luminescent and UV radiation blocking materials	Pai A.J., Sarojini B.K., Harshitha K.R., Shivarama Holla B., Lobo A.G.	Optical Materials	10.1016/j.optmat.2019.02.028	2.687
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148	Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO ₃ thin films	Alex K.V., Jayakrishnan A.R., Ajeesh Kumar S., Ibrahim A.S., Kamakshi K., Silva J.P.B., Sekhar K.C., Gomes M.J.M.	Materials Research Express	10.1088/2053-1591/ab0f7a	1.449

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151	Assessment of Plant-Probiotic Performance of Novel Endophytic Bacillus sp. in Talc-Based Formulation	Basheer J., Ravi A., Mathew J., Krishnankutty R.E.	Probiotics and Antimicrobial Proteins	10.1007/s12602-018-9386-y	2.962
152	Aggregation Enhanced Excimer Emission Supported, Monomeric Fluorescence Quenching of Dendritic Hyperbranched Polyglycerol Coupled 1-Pyrene Butyric Acid Lumophore as a Sensing Probe for Fe ₂ O ₃ Nanoparticles	Philip S., Kuriakose S.	Journal of Fluorescence	10.1007/s10895-019-02347-7	1.913
153	Catalytic Degradation of Methyl Orange and Selective Sensing of Mercury Ion in Aqueous Solutions Using Green Synthesized Silver Nanoparticles from the Seeds of Derris trifoliata	Cyril N., George J.B., Joseph L., Syllas V.P.	Journal of Cluster Science	10.1007/s10876-019-01508-9	2.125
154	Emerging trends in sensors based on carbon nitride materials	Xavier M.M., Nair P.R., Mathew S.	Analyst	10.1039/c8an02110d	4.019
155	Fabrication of cellulose acetate/chitosan blend films as efficient adsorbent for anionic water pollutants	Gopi S., Pius A., Kargl R., Kleinschek K.S., Thomas S.	Polymer Bulletin	10.1007/s00289-018-2467-y	1.858
156	Low cost multilayered green fiber for the treatment of textile industry waste water	Mathew M.L., Gopalakrishnan A., Aravindakumar C.T., Aravind U.K.	Journal of Hazardous Materials	10.1016/j.jhazmat.2018.11.014	7.65

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161	Dependence of solvents, pH, molar ratio and temperature in tuning metal organic framework architecture	Seetharaj R., Vandana P.V., Arya P., Mathew S.	Arabian Journal of Chemistry	10.1016/j.arabjc.2016.01.003	3.298
162	Antibacterial Effectiveness of Rice Water (Starch)-Capped Silver Nanoparticles Fabricated Rapidly in the Presence of Sunlight	Mathew S., Raveendran A., Mathew J., Radhakrishnan E.K.	Photochemistry and Photobiology	10.1111/php.13005	3.261
163	Developing Polyaniline Filled Isoprene Composite Fibers by Electrospinning: Effect of Filler Concentration on the Morphology and Glass Transition	Deepalekshmi Ponnamma, Sadasivuni K.K., Al-Maadeed M.A.A., Thomas S.	Polymer Science - Series A	10.1134/S0965545X19020093	0.984

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164	Synthesis, structural and luminescent properties of Eu ²⁺ /Dy ³⁺ activated GdAlO ₃ phosphors by solid state reaction method under nitrogen atmosphere	Tamrakar R.K., Tiwari S., Upadhyay K., Robinson C.S.	Optik	10.1016/j.ijleo.2018.12.076	1.914
165	Pretreatment of Tribulus terrestris L. causes anti-ischemic cardioprotection through MAPK mediated anti-apoptotic pathway in rat	Reshma P.L., Binu P., Anupama N., Vineetha R.C., Abhilash S., Nair R.H., Raghu K.G.	Biomedicine and Pharmacotherapy	10.1016/j.biopha.2019.01.033	3.743
166	Bionanocomposite films based on potato, tapioca starch and chitosan reinforced with cellulose nanofiber isolated from turmeric spent	Gopi S., Amalraj A., Jude S., Thomas S., Guo Q.	Journal of the Taiwan Institute of Chemical Engineers	10.1016/j.jtice.2019.01.003	3.834
167	Investigation on the key aspects of l-arginine para nitrobenzoate monohydrate single crystal: A non-linear optical material	Sonia, Vijayan N., Vij M., Thukral K., Khan N., Haranath D., Rajnikant, Jayalakshmy M.S.	Chinese Journal of Chemical Engineering	10.1016/j.cjche.2018.06.029	1.911
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169	Nanolignocellulose extracted from environmentally undesired prosopis juliflora	Valencia L., Arumughan V., Jalvo B., Maria H.J., Thomas S., Mathew A.P.	ACS Omega	10.1021/acsomega.8b02685	2.584
170	Plant Growth Promoting Traits of Indigenous Phosphate Solubilizing Pseudomonas aeruginosa Isolates from Chilli (Capsicum annum L.) Rhizosphere	Linu M.S., Asok A.K., Thampi M., Sreekumar J., Jisha M.S.	Communications in Soil Science and Plant Analysis	10.1080/00103624.2019.1566469	0.687

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172	Photobehaviour and in vitro binding strategy of natural drug, chlorogenic acid with DNA: A case of groove binding	Thomas R.K., Sukumaran S., Sudarsanakumar C.	Journal of Molecular Structure	10.1016/j.molstruc.2018.10.019	2.12
173	Novel ethylene diamine functionalised nanocellulose/poly(ethylene-co-acrylic acid) composites for biomedical applications	Chenampulli S., Unnikrishnan G., Thomas S., Narine S.S.	Cellulose	10.1007/s10570-018-02227-6	3.917
174	Pervaporation separation of an azeotropic mixture of a tetrahydrofuran�water system with nanostructured polyhedral oligomeric silsesquioxane embedded poly(vinyl alcohol)	Swapna V.P., Jose T., George S.C., Thomas S., Stephen R.	Journal of Applied Polymer Science	10.1002/app.47060	2.188
175	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites	Ghosal K., Agatemor C., � pit�jsky Z., Thomas S., Kny E.	Chemical Engineering Journal	10.1016/j.cej.2018.10.117	8.355
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178	Anticancer, antimicrobial, antioxidant, and catalytic activities of green-synthesized silver and gold nanoparticles using Bauhinia purpurea leaf extract	Aparna E.P., Devaky K.S.	Bioprocess and Biosystems Engineering	10.1007/s00449-018-2035-8	2.371

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180	Novel cobalt-valine catalyzed O-arylation of phenols with electron deficient aryl iodides	Ujwaldev S.M., Saranya S., Harry N.A., Anilkumar G.	Monatshefte fur Chemie	10.1007/s00706-018-2324-6	1.501
181	Development of plasticized poly (vinyl chloride)/reduced graphene oxide nanocomposites for energy storage applications	Akhina H., Mohammed Arif P., Gopinathan Nair M.R., Nandakumar K., Thomas S.	Polymer Testing	10.1016/j.polymertesting.2018.10.015	2.943
182	Ionic liquid modified multiwalled carbon nanotube embedded styrene butadiene rubber membranes for the selective removal of toluene from toluene/methanol mixture via pervaporation	Abraham J., Jose T., Moni G., George S.C., Kalarikkal N., Thomas S.	Journal of the Taiwan Institute of Chemical Engineers	10.1016/j.jtice.2018.09.019	3.834
183	Selective sensing of curcumin using L-cysteine derived blue luminescent graphene quantum dots	Sudarsanakumar C., Thomas S., Mathew S., Arundhathi S., Raj D.R., Prasanth S., Thomas R.K.	Materials Research Bulletin	10.1016/j.materresbull.2018.10.014	3.355
184	Nanostructuring of 1-butyl-4-methylpyridinium chloride in ionic liquidâ€“iron oxide nanofluids	Joseph A., Fal J., Å»yÅ„a G., Mathew S.	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-018-7495-1	2.471
185	Enhancement in the physico-mechanical functions of seaweed biopolymer film via embedding fillers for plasticulture application-A comparison with conventional biodegradable mulch film	Hasan M., Chong E.W.N., Jafarzadeh S., Paridah M.T., Gopakumar D.A., Tajarudin H.A., Thomas S., Khalil H.P.S.A.	Polymers	10.3390/polym11020210	3.614

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186	Ligand-Free Cu-Catalyzed Suzuki Coupling of Alkynyl Bromides with Boronic Acids in Ethanol Under Microwave Irradiation	Babu S.A., Saranya S., Rohit K.R., Anilkumar G.	ChemistrySelect	10.1002/slct.201803144	1.716
187	In Vitro Study of the Interaction Between HSA and 4-Bromoindolylchalcone, a Potent Human MAO-B Inhibitor: Spectroscopic and Molecular Modeling Studies	Chaves O.A., Sasidharan R., dos Santos de Oliveira C.H.C., Manju S.L., Joy M., Mathew B., Netto-Ferreira J.C.	ChemistrySelect	10.1002/slct.201802665	1.716
188	Soft, Self-Assembly Liquid Crystalline Nanocomposite for Superior Switching	Pal K., Sajjadifar S., Abd Elkodous M., Alli Y.A., Gomes F., Jeevanandam J., Thomas S., Sigov A.	Electronic Materials Letters	10.1007/s13391-018-0098-y	1.881
189	Facile synthesis of 2-benzoxazoles via CuI/2,2'-bipyridine catalyzed intramolecular C–O coupling of 2-haloanilides	Venu Saranya T., Rajan Sruthi P., Anas S.	Synthetic Communications	10.1080/00397911.2018.1554147	1.439
190	A convenient route to 1,3-diynes using ligand-free Cadiot–Chodkiewicz coupling reaction at room temperature under aerobic conditions	Asha S., Anjana S., Thomas A.M., Thomas M.E., Rohit K.R., Krishnan K.K., Ujwaldev S.M., Anilkumar G.	Synthetic Communications	10.1080/00397911.2018.1554142	1.439
191	An efficient protocol for the synthesis of thioethers via iron-catalyzed cross-coupling reaction and its mechanistic investigation	Sindhu K.S., Abi T.G., Mathai G., Anilkumar G.	Polyhedron	10.1016/j.poly.2018.11.004	2.284
192	Penicillium setosum, a new species from Withania somnifera (L.) Dunal	George T.K., Houbraken J., Mathew L., Jisha M.S.	Mycology	10.1080/21501203.2018.1555868	1.649
193	Silicone bridged iron metallocene butadiene composite solid propellant binder: aspects of thermal decomposition kinetics,	Reshmi S., Ganesan M., Soumyamol P.B., Thomas D., Athmaja D.V.	Journal of Energetic Materials	10.1080/07370652.2018.1517397	1.649

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194	Unmodified silver nanoparticles for dual detection of dithiocarbamate fungicide and rapid degradation of water pollutants	Ragam P.N., Mathew B.	International Journal of Environmental Science and Technology	10.1007/s13762-019-02454-9	2.031
195	Multilayered surface for the interactive separation of perchlorate from aqueous medium	Shalumon C.S., Aravindakumar C.T., Aravind U.K.	Environmental Chemistry	10.1071/EN19049	2.193
196	Multilinear Principal Component Analysis with SVM for Disease Diagnosis on Big Data	Mathew J., Vijaya kumar R.	IETE Journal of Research	10.1080/03772063.2019.1615008	0.793
197	Recent advances and prospects in nickel-catalyzed C-H activation	Harry N.A., Saranya S., Ujwaldev S.M., Anilkumar G.	Catalysis Science and Technology	10.1039/c9cy00009g	1.792
198	Native arbuscular mycorrhizal fungal isolates (Funneliformis mosseae and Glomus microcarpum) improve plant height and nutritional status of banana plants	Kammadavil Sahodaran N., Arun A.K., Ray J.G.	Experimental Agriculture	10.1017/S0014479719000036	2.089
199	Fabrication of a Structure-Specific Molecular Imprinted Polymer-Based Electrochemical Sensor Based on CuNP-Decorated Vinyl-Functionalized Graphene for the Detection of Parathion Methyl in Vegetable and Fruit Samples	Sooraj M.P., Mathew B.	Food Analytical Methods	10.1007/s12161-018-01428-w	2.413
200	Oxidative degradation of ranitidine by UV and ultrasound: Identification of transformation products using LC-Q-ToF-MS	Sooraj M.P., Mathew B.	Environmental Chemistry	10.1071/EN18155	2.193

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201	CHAPTER 7: High Performance Flooring Materials from Recycled Rubber	Mishra R., Aswathi M.K., Thomas S.	RSC Green Chemistry	10.1039/9781788013482-00160	9.405
202	Revealing the interaction strategy of Diosmin functionalized gold nanoparticles with ctDNA: Multi-spectroscopic, calorimetric and thermodynamic approach	Thomas R.K., Sukumaran S., Prasanth S., Sudarsanakumar C.	Journal of Luminescence	10.1016/j.jlumin.2018.09.004	2.961
203	Microwave aided and plant reduced gold nanoparticles as talented dye degradation catalysts	Francis S., Koshy E.P., Mathew B.	Scientia Iranica	10.24200/sci.2018.50357.1656	0.718
204	In situ S-doped ultrathin gC3N4 nanosheets coupled with mixed-dimensional (3D/1D) nanostructures of silver vanadates for enhanced photocatalytic degradation of organic pollutants	Joseph S., Abraham S., Priyanka R.N., Abraham T., Suresh A., Mathew B.	New Journal of Chemistry	10.1039/c9nj01353a	3.069
205	Computational Design and Fabrication of Enantioselective Recognition Sorbents for L-phenylalanine Benzyl Ester on Multiwalled Carbon Nanotubes Using Molecular Imprinting Technology	Sajini T., Thomas R., Mathew B.	Chinese Journal of Polymer Science (English Edition)	10.1007/s10118-019-2282-4	2.804
206	A nanocomposite of N-doped carbon dots with gold nanoparticles for visible light active photosensitisers	Nozaki T., Kakuda T., Pottathara Y.B., Kawasaki H.	Photochemical and Photobiological Sciences	10.1039/c9pp00035f	2.408
207	Neural functions of the aging brain: Daily living, developmental and geriatric disabilities	Raju T.R., Mohanakumar K.P.	Journal of Chemical Neuroanatomy	10.1016/j.jchemneu.2018.12.004	2.357

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209	Synthesis and electrochemical characterization of electroactive IoNanofluids with high dielectric constants from hydrated ferrous sulphate	Joseph A., Xavier M.M., Fal J., Å»yÅ,a G., Sasi S., Radhakrishnan Nair P., Padmanabhan A.S., Mathew S.	Chemical Communications	10.1039/c8cc08243j	6.164
210	Polyphasic approach revealed complex bacterial community structure and function in deep sea sediment of ultra-slow spreading Southwest Indian Ridge	Sinha R.K., Krishnan K.P., Thomas F.A., Binish M.B., Mohan M., Kurian P.J.	Ecological Indicators	10.1016/j.ecolind.2018.08.063	4.49
211	The medicinal chemistry of therapeutic peptides: Recent developments in synthesis and design optimizations	Parthasarathy A., Anandamma S.K., Kalesh K.A.	Current Medicinal Chemistry	10.2174/0929867324666171012103559	3.894
212	Development of electrochemical nanosensor for the detection of malaria parasite in clinical samples	Obisesan O.R., Adekunle A.S., Oyekunle J.A.O., Sabu T., Nkambule T.T.I., Mamba B.B.	Frontiers in Chemistry	10.3389/fchem.2019.00089	3.782
213	Exploring the fillerâ€™ polymer interaction and solvent transport behavior of nanocomposites derived from reduced graphene oxide and polychloroprene rubber	Maya M.G., Abraham J., George S.C., Thomas S.	Journal of Applied Polymer Science	10.1002/app.48168	2.188
214	Epoxy/methyl methacrylate acrylonitrile butadiene styrene (MABS) copolymer blends: Reaction-induced viscoelastic phase separation, morphology development and mechanical properties	Joy J., Winkler K., Joseph K., Anas S., Thomas S.	New Journal of Chemistry	10.1039/c8nj05653f	3.069

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215	Correction: Cascade energy transfer and tunable emission from nanosheet Hybrids: Locating acceptor molecules through chiral doping (Chemical Communications (2017) 53 (7072-7075) DOI: 10.1039/C7CC02994B)	Goudappagouda, Wakchaure V.C., Ranjeesh K.C., Abhai C.A.R., Babu S.S.	Chemical Communications	10.1039/c9cc90228g	6.164
216	Effect of CoFe ₂ O ₄ weight fraction on multiferroic and magnetoelectric properties of (1-x)Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ∧xCoFe ₂ O ₄ particulate composites	Kumar A.S., Lekha C.S.C., Vivek S., Nandakumar K., Anantharaman M.R., Nair S.S.	Journal of Materials Science: Materials in Electronics	10.1007/s10854-019-01140-3	2.195
217	Highly Ordered Good Crystalline ZnO-Doped WO ₃ Thin Films Suitable for Optoelectronic Applications	Kavitha V.S., Bose R.J., Sreedharan R.S., Sudarsanakumar C., Prabhu R., Pillai V.P.M.	JOM	10.1007/s11837-019-03425-8	2.305
218	Autistic traits and components of the folate metabolic system: an explorative analysis in the eastern Indian ASD subjects	Saha S., Saha T., Sinha S., Rajamma U., Mukhopadhyay K.	Nutritional Neuroscience	10.1080/1028415X.2019.1570442	3.95
219	Scope of surface-modified molecular and nanomaterials in gel/liquid forms for developing mechanically flexible DSSCs/QDSSCs	Sasi S., Sugunan S.K., Radhakrishnan Nair P., Subramanian K.R.V., Mathew S.	Photochemical and Photobiological Sciences	10.1039/C8PP00293B	2.408
220	Synthesis, Crystal Growth, and Optical Characterization of a Novel Nonlinear Optical Organic Material: N,N-Diarylbenzamide	Sasi S., Sugunan S.K., Radhakrishnan Nair P., Subramanian K.R.V., Mathew S.	Crystal Research and Technology	10.1002/crat.201700146	1.09
221	Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures	Bhagyaraj S., Perumbilavil S., Udayabashkar R., Mangalaraja R.V., Thomas S., Kalarikkal N., Oluwafemi O.S.	Physical Chemistry Chemical Physics	10.1039/c9cp00476a	3.567

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222	Assessment of antioxidant, antibacterial and anti-proliferative (lung cancer cell line A549) activities of green synthesized silver nanoparticles from <i>Derris trifoliata</i>	Cyril N., George J.B., Joseph L., Raghavamenon A.C., Sylas V.P.	Toxicology Research	10.1039/C8TX00323H	1.593
223	Effects of termite foraging activity on topsoil physical properties and water infiltration in Vertisol	Cheik S., Bottinelli N., Soudan B., Harit A., Chaudhary E., Sukumar R., Jouquet P.	Applied Soil Ecology	10.1016/j.apsoil.2018.10.001	3.455
224	Linking termite feeding preferences and soil physical functioning in southern-indian woodlands	Cheik S., Shanbhag R.R., Harit A., Bottinelli N., Sukumar R., Jouquet P.	Insects	10.3390/insects10010004	2.139
225	Carbon nanotube reinforced poly(trimethylene terephthalate) nanocomposites: Viscoelastic properties and chain confinement	Aswathi M.K., Padmanabhan M., Mathew L., Saha P., Terzano R., Kalarikkal N., Volova T., Thomas S.	Polymer Engineering and Science	10.1002/pen.25010	1.92
226	Flame retardant epoxy composites on the road of innovation: An analysis with flame retardancy index for future development	Movahedifar E., Vahabi H., Saeb M.R., Thomas S.	Molecules	10.3390/molecules24213964	3.06
227	Injectable poloxamer/graphene oxide hydrogels with well-controlled mechanical and rheological properties	Rohani Rad E., Vahabi H., Formela K., Saeb M.R., Thomas S.	Polymers for Advanced Technologies	10.1002/pat.4654	2.162
228	UV-Induced reduction of graphene oxide in cellulose nanofibril composites	Pottathara Y.B., Thomas S., Kalarikkal N., Griesser T., Grohens Y., Bobnar V., FinÅiggar M., Kokol V., Kargl R.	New Journal of Chemistry	10.1039/C8NJ03563F	3.069
229	Magnetic performance and defect characterization studies of core-shell architected MgFe 2	Abraham A.R., Raneesh B., Joseph S., Mohammed Arif P., Nambissan P.M.G., Das D.,	Physical Chemistry Chemical Physics	10.1039/c8cp04946g	3.567

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230	From science to evidence - how biodiversity indicators can be used for effective marine conservation policy and management	McQuatters-Gollop A., Mitchell I., Vina-Herbon C., Bedford J., Addison P.F.E., Lynam C.P., Geetha P.N., Vermeulan E.A., Smit K., Bayley D.T.I., Morris-Webb E., Niner H.J., Otto S.A.	Frontiers in Marine Science	10.3389/fmars.2019.00109	3.086
231	White paper on the future of plasma science and technology in plastics and textiles	Cvelbar U., Walsh J.L., ĀernĀjk M., de Vries H.W., Reuter S., Belmonte T., Corbella C., Miron C., Hojnik N., Jurov A., Puliyalil H., Gorjanc M., Portal S., Laurita R., Colombo V., SchĀrfer J., Nikiforov A., Modic M., Kylian O., Polak M., Labay C., Canal J.M., Canal C., Gherardi M., Bazaka K., Sonar P., Ostrikov K.K., Cameron D., Thomas S., Weltmann K.-D.	Plasma Processes and Polymers	10.1002/ppap.201700228	3.173
				Cumulative impact factor	785.053
				Aveg.Impact Published papers	3.3985
				Avg. Impact Factor/faculty	8.35163