

Bala Kandasubramanian

List of Publications by Citations

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261
papers

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267
ext. papers

8,219
ext. citations

4.4
avg, IF

7.51
L-index

#	Paper	IF	Citations
261	Review of alginate-based hydrogel bioprinting for application in tissue engineering. <i>Biofabrication</i> , 2019 , 11, 042001	10.5	164
260	Progress update on failure mechanisms of advanced thermal barrier coatings: A review. <i>Progress in Organic Coatings</i> , 2016 , 90, 54-82	4.8	150
259	Advancements in nanofibers for wound dressing: A review. <i>European Polymer Journal</i> , 2019 , 117, 304-336	5.2	150
258	Graphene and Graphene Oxide-Based Composites for Removal of Organic Pollutants: A Review. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 833-867	2.8	149
257	Recent progress in fabrication and characterisation of hierarchical biomimetic superhydrophobic structures. <i>RSC Advances</i> , 2014 , 4, 22053	3.7	143
256	Heterogeneous wettable cotton based superhydrophobic Janus biofabric engineered with PLA/functionalized-organoclay microfibers for efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7457-7479	13	128
255	Breakthrough in the printing tactics for stimuli-responsive materials: 4D printing. <i>Chemical Engineering Journal</i> , 2019 , 366, 264-304	14.7	104
254	Directional Fluid Gating by Janus Membranes with Heterogeneous Wetting Properties for Selective Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19102-19113	9.5	91
253	Nanocellulose based biodegradable polymers. <i>European Polymer Journal</i> , 2020 , 133, 109758	5.2	87
252	Polymer composite for antistatic application in aerospace. <i>Defence Technology</i> , 2020 , 16, 107-118	3	86
251	Photoluminescent carbon soot particles derived from controlled combustion of camphor for superhydrophobic applications. <i>RSC Advances</i> , 2014 , 4, 11331	3.7	85
250	Progress in the Advancement of Porous Biopolymer Scaffold: Tissue Engineering Application. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6163-6194	3.9	84
249	Processing and design methodologies for advanced and novel thermal barrier coatings for engineering applications. <i>Particuology</i> , 2016 , 27, 1-28	2.8	77
248	Graphene nanoribbon-PVA composite as EMI shielding material in the X band. <i>Nanotechnology</i> , 2013 , 24, 455705	3.4	74
247	Recent advances in 2D MXenes for enhanced cation intercalation in energy harvesting Applications: A review. <i>Chemical Engineering Journal</i> , 2020 , 392, 123678	14.7	73
246	Effect of microplastics in water and aquatic systems. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 19544-19562	5.1	72
245	A polydopamine-based platform for anti-cancer drug delivery. <i>Biomaterials Science</i> , 2019 , 7, 1776-1793	7.4	72

244	Graphene and Graphene Oxide for Fuel Cell Technology. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9333-9350	3.9	67
243	Preparation of nickel coated mica as a conductive filler. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 745-751	8.4	64
242	Functionalized graphene materials for hydrogen storage. <i>Journal of Materials Science</i> , 2020 , 55, 1865-1903	4.3	63
241	Naturally biomimicked smart shape memory hydrogels for biomedical functions. <i>Chemical Engineering Journal</i> , 2020 , 379, 122430	14.7	63
240	Progress in the Development of Intrinsically Conducting Polymer Composites as Biosensors. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800561	2.6	62
239	An experimental design for the investigation of water repellent property of candle soot particles. <i>Materials Chemistry and Physics</i> , 2014 , 148, 134-142	4.4	62
238	Modification of montmorillonite with aminopropylisooctyl polyhedral oligomeric silsesquioxane. <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 164-70	9.3	62
237	Progress in silk materials for integrated water treatments: Fabrication, modification and applications. <i>Chemical Engineering Journal</i> , 2019 , 374, 437-470	14.7	61
236	Advancements in MXene-Polymer composites for various biomedical applications. <i>Ceramics International</i> , 2020 , 46, 8522-8535	5.1	61
235	Body armour materials: from steel to contemporary biomimetic systems. <i>RSC Advances</i> , 2016 , 6, 115145-115174	3.7	60
234	Functionalized Aramid Fibers and Composites for Protective Applications: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16537-16563	3.9	55
233	Dielectric investigation of a conducting fibrous nonwoven porous mat fabricated by a one-step facile electrospinning process. <i>RSC Advances</i> , 2016 , 6, 36588-36598	3.7	54
232	Bionic creation of nano-engineered Janus fabric for selective oil/organic solvent absorption. <i>RSC Advances</i> , 2016 , 6, 111250-111260	3.7	52
231	Mxene functionalized polymer composites: Synthesis and applications. <i>European Polymer Journal</i> , 2020 , 122, 109367	5.2	52
230	Effect of POSS on morphology and mechanical properties of polyamide 12/montmorillonite nanocomposites. <i>Applied Clay Science</i> , 2010 , 47, 249-256	5.2	50
229	Recent advances in dendrimer-based nanoplatfom for cancer treatment: A review. <i>European Polymer Journal</i> , 2020 , 126, 109546	5.2	48
228	Mechanochemical and chemical recycling methodologies for the Fibre Reinforced Plastic (FRP). <i>Environmental Technology and Innovation</i> , 2019 , 14, 100311	7	46
227	Encapsulation of therapeutic lavender oil in an electrolyte assisted polyacrylonitrile nanofibres for antibacterial applications. <i>RSC Advances</i> , 2014 , 4, 54892-54901	3.7	45

226	Ion-imprinted electrospun nanofibers of chitosan/1-butyl-3-methylimidazolium tetrafluoroborate for the dynamic expulsion of thorium (IV) ions from mimicked effluents. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 3320-3334	5.1	45
225	Surface characteristics of polyhedral oligomeric silsesquioxane modified clay and its application in polymerization of macrocyclic polyester oligomers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11915-22	3.4	44
224	Nanostructured microporous polymer composite imprinted with superhydrophobic camphor soot, for emphatic oil/water separation. <i>RSC Advances</i> , 2014 , 4, 53291-53296	3.7	43
223	4D printing of shape memory polymers. <i>European Polymer Journal</i> , 2020 , 134, 109771	5.2	43
222	Novel hybrid ablative composites of resorcinol formaldehyde as thermal protection systems for re-entry vehicles. <i>RSC Advances</i> , 2014 , 4, 28956	3.7	42
221	Flexible Polymeric Substrates for Electronic Applications. <i>Polymer Reviews</i> , 2018 , 58, 630-667	14	42
220	Biocompatible alkyl cyanoacrylates and their derivatives as bio-adhesives. <i>Biomaterials Science</i> , 2018 , 6, 1691-1711	7.4	42
219	Thermoplastic-Toughened High-Temperature Cyanate Esters and Their Application in Advanced Composites. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4479-4504	3.9	41
218	Molecular interactions and antimicrobial activity of curcumin (<i>Curcuma longa</i>) loaded polyacrylonitrile films. <i>Materials Chemistry and Physics</i> , 2014 , 147, 934-941	4.4	41
217	Uranium(VI) remediation from aqueous environment using impregnated cellulose beads. <i>Journal of Environmental Radioactivity</i> , 2014 , 136, 22-9	2.4	40
216	Biodegradable Polymeric Solid Framework-Based Organic Phase-Change Materials for Thermal Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10652-10677	3.9	39
215	The dielectric properties and charge transport mechanism of π -conjugated segments decorated with intrinsic conducting polymer. <i>RSC Advances</i> , 2016 , 6, 69733-69742	3.7	39
214	Silk fibres exhibiting biodegradability & superhydrophobicity for recovery of petroleum oils from oily wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121823	12.8	39
213	UHMWPE for biomedical applications: Performance and functionalization. <i>European Polymer Journal</i> , 2020 , 125, 109529	5.2	38
212	Multifunctional nano-engineered and bio-mimicking smart superhydrophobic reticulated ABS/fumed silica composite thin films with heat-sinking applications. <i>RSC Advances</i> , 2016 , 6, 105180-105191	3.7	38
211	Facile synthesis of nano cauliflower and nano broccoli like hierarchical superhydrophobic composite coating using PVDF/carbon soot particles via gelation technique. <i>Journal of Colloid and Interface Science</i> , 2014 , 436, 111-21	9.3	38
210	Fundamentals and Effects of Biomimicking Stimuli-Responsive Polymers for Engineering Functions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9709-9757	3.9	37
209	Biomimicking of Hierarchal Molluscan Shell Structure Via Layer by Layer 3D Printing. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10832-10840	3.9	37

208	Antibacterial application of polyvinylalcohol-nanogold composite membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 455, 174-178	5.1	37
207	Review on 3D Prototyping of Damage Tolerant Interdigitating Brick Arrays of Nacre. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10516-10525	3.9	37
206	Hybrid Carbon-Carbon Ablative Composites for Thermal Protection in Aerospace. <i>Journal of Composites</i> , 2014 , 2014, 1-15		37
205	Morphology and properties of silane-modified montmorillonite clays and clay/PBT composites. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 550-557	2.9	37
204	Polymer matrix composites as broadband radar absorbing structures for stealth aircrafts. <i>Journal of Applied Polymer Science</i> , 2018 , 136, 47241	2.9	37
203	Molecularly Imprinted Polymers for Selective Recognition and Extraction of Heavy Metal Ions and Toxic Dyes. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 396-418	2.8	36
202	Polymer/agro-waste composites for removal of Congo red dye from wastewater: adsorption isotherms and kinetics. <i>Desalination and Water Treatment</i> , 2014 , 52, 7797-7811		36
201	Egg albumin PVA hybrid membranes for antibacterial application. <i>Materials Letters</i> , 2013 , 110, 130-133	3.3	36
200	Heavy and toxic metal uptake by mesoporous hypercrosslinked SMA beads: Isotherms and kinetics. <i>Journal of Saudi Chemical Society</i> , 2016 , 20, S579-S590	4.3	35
199	A Review on Polymeric-Based Phase Change Material for Thermo-Regulating Fabric Application. <i>Polymer Reviews</i> , 2020 , 60, 389-419	14	35
198	Nanofibers of resorcinol-formaldehyde for effective adsorption of As (III) ions from mimicked effluents. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11729-11745	5.1	34
197	Composite materials for supersonic aircraft radomes with ameliorated radio frequency transmission-a review. <i>RSC Advances</i> , 2016 , 6, 6709-6718	3.7	34
196	Advances in Ablative Composites of Carbon Based Materials: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22663-22701	3.9	34
195	Review on Three-Dimensionally Emulated Fiber-Embedded Lactic Acid Polymer Composites: Opportunities in Engineering Sector. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 860-874		31
194	Reticulated three-dimensional network ablative composites for heat shields in thermal protection systems. <i>RSC Advances</i> , 2014 , 4, 43708-43719	3.7	31
193	Terpolymer (ABS) cermet (Ni-NiFe ₂ O ₄) hybrid nanocomposite engineered 3D-carbon fabric mat as a X-band electromagnetic interference shielding material. <i>Materials Letters</i> , 2019 , 238, 214-217	3.3	31
192	Electronic properties of Poly(1,6-heptadiynes) electrospun fibrous non-woven mat. <i>Materials Chemistry and Physics</i> , 2019 , 223, 343-352	4.4	31
191	Magnetodielectric Microwave Radiation Absorbent Materials and Their Polymer Composites. <i>Journal of Electronic Materials</i> , 2018 , 47, 6335-6365	1.9	31

- 190 Metallization of electrospun PAN nanofibers via electroless gold plating. *RSC Advances*, **2015**, 5, 24990-24996 30
- 189 Polyacrylonitrile/Syzygium aromaticum hierarchical hydrophilic nanocomposite as a carrier for antibacterial drug delivery systems. *RSC Advances*, **2015**, 5, 3291-3298 3.7 30
- 188 Nanotechnology for Oil-Water Separation. *Nanotechnology in the Life Sciences*, **2019**, 299-339 1.1 29
- 187 Kinetic and isotherm analysis for selective thorium(IV) retrieval from aqueous environment using eco-friendly cellulose composite. *International Journal of Environmental Science and Technology*, **2015**, 12, 3095-3106 3.3 29
- 186 Functionalised graphene as flexible electrodes for polymer photovoltaics. *Journal of Alloys and Compounds*, **2020**, 825, 153954 5.7 28
- 185 Structural and Thermal Stability of Polycarbonate Decorated Fumed Silica Nanocomposite via Thermomechanical Analysis and In-situ Temperature Assisted SAXS. *Scientific Reports*, **2017**, 7, 7706 4.9 28
- 184 Effect of POSS on crystalline transitions and physical properties of polyamide 12. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 121-129 2.6 28
- 183 Graphene aerogel-based phase changing composites for thermal energy storage systems. *Journal of Materials Science*, **2020**, 55, 4127-4156 4.3 28
- 182 PCL/PVA nanoencapsulated reinforcing fillers of steam exploded/autoclaved cellulose nanofibrils for tissue engineering applications. *RSC Advances*, **2015**, 5, 23999-24008 3.7 27
- 181 Advancements in Hydrogel-Functionalized Immunosensing Platforms. *ACS Omega*, **2020**, 5, 2060-2068 3.9 27
- 180 Polymeric thermoelectric PEDOT: PSS & composites: Synthesis, progress, and applications. *European Polymer Journal*, **2020**, 132, 109726 5.2 27
- 179 Chemically modified polymer beads for sorption of gold from waste gold solution. *Journal of Hazardous Materials*, **2012**, 217-218, 447-51 12.8 27
- 178 Fused deposition processing polycaprolactone of composites for biomedical applications. *Polymer-Plastics Technology and Materials*, **2019**, 58, 1365-1398 1.5 27
- 177 Ion-imprinted nanofibers of PVDF/1-butyl-3-methylimidazolium tetrafluoroborate for dynamic recovery of europium (III) ions from mimicked effluent. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103068 6.8 25
- 176 Hybrid caged nanostructure ablative composites of octaphenyl-POSS/RF as heat shields. *RSC Advances*, **2015**, 5, 8757-8769 3.7 25
- 175 Electrospun nanofiber-based cancer sensors: A review. *International Journal of Pharmaceutics*, **2020**, 583, 119364 6.5 25
- 174 Hierarchically porous PVDF/nano-SiC foam for distant oil-spill cleanups. *RSC Advances*, **2014**, 4, 53761-53767 3.7 25
- 173 Progressive trends in heavy metal ions and dyes adsorption using silk fibroin composites. *Environmental Science and Pollution Research*, **2020**, 27, 210-237 5.1 25

172	Needleless electrospun phytochemicals encapsulated nanofibre based 3-ply biodegradable mask for combating COVID-19 pandemic. <i>Chemical Engineering Journal</i> , 2021 , 416, 129152	14.7	25
171	NiFeO/Poly(1,6-heptadiyne) Nanocomposite Energy-Storage Device for Electrical and Electronic Applications. <i>ACS Omega</i> , 2018 , 3, 15256-15266	3.9	25
170	Molecularly imprinted and nanoengineered camphor soot functionalized PAN-nanofibers for effluent treatment. <i>RSC Advances</i> , 2015 , 5, 31732-31741	3.7	24
169	Effect of La on piezoelectric properties of Pb(Ni _{1/3} Sb _{2/3})O ₃ Pb(ZrTi)O ₃ ferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 411-417	2.1	24
168	Thermally Triggered Transition of Superhydrophobic Characteristics of Micro- and Nanotextured Multiscale Rough Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 150610094322003	3.8	24
167	Starch/PVA hydrogels for oil/water separation. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 32013-32028	5.1	23
166	Metal Organic Framework Functionalized Fabrics for Detoxification of Chemical Warfare Agents. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 569-586	3.9	23
165	Investigation of dielectric properties of free standing electrospun nonwoven mat. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46121	2.9	22
164	Exploration of elastomeric and polymeric liquid crystals with photothermal actuation: A review. <i>European Polymer Journal</i> , 2019 , 121, 109287	5.2	21
163	Cost-effective, low density, carbon soot doped resorcinol formaldehyde composite for ablative applications. <i>RSC Advances</i> , 2015 , 5, 23622-23634	3.7	21
162	Adsorption of arsenic (V) ions onto cellulosic-ferric oxide system: kinetics and isotherm studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 9420-9436		21
161	Keratin-Nylon 6 engineered microbeads for adsorption of Th (IV) ions from liquid effluents. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5655-5667	6.8	21
160	Functionalized polylysine biomaterials for advanced medical applications: A review. <i>European Polymer Journal</i> , 2021 , 146, 110248	5.2	21
159	Dielectric, Hydrophobic Investigation of ABS/NiFe ₂ O ₄ Nanocomposites Fabricated by Atomized Spray Assisted and Solution Casted Techniques for Miniaturized Electronic Applications. <i>Journal of Electronic Materials</i> , 2018 , 47, 5640-5656	1.9	21
158	Experimental and theoretical investigations of Lantana camara oil diffusion from polyacrylonitrile membrane for pulsatile drug delivery system. <i>Materials Science and Engineering C</i> , 2014 , 41, 292-300	8.3	20
157	3D printed scaffolds for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123642	4.4	20
156	Silk-Based Composite Scaffolds for Tissue Engineering Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17593-17611	3.9	20
155	Technical textiles for military applications. <i>Journal of the Textile Institute</i> , 2020 , 111, 273-308	1.5	20

- 154 Bionic Prototyping of Honeycomb Patterned Polymer Composite and Its Engineering Application. *Polymer-Plastics Technology and Engineering*, **2018**, 57, 1828-1844 19
- 153 Controlled anisotropic wetting behaviour of multi-scale slippery surface structure of non fluoro polymer composite. *EXPRESS Polymer Letters*, **2013**, 7, 900-909 3.4 19
- 152 Nanocomposites of MXene for industrial applications. *Journal of Alloys and Compounds*, **2021**, 862, 158547 19
- 151 Fabrication, Physicochemical Characterizations and Electrical Conductivity Studies of Modified Carbon Nanofiber-Reinforced Epoxy Composites: Effect of 1-Butyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquid. *Polymer-Plastics Technology and Engineering*, **2018**, 57, 218-228 18
- 150 Adsorption potency of imprinted Starch/PVA polymers confined ionic liquid with molecular simulation framework. *Journal of Environmental Chemical Engineering*, **2016**, 4, 2147-2154 6.8 18
- 149 Rapid investigation expiry drug green corrosion inhibitor on mild steel in NaCl medium. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2019**, 249, 114423 3.1 18
- 148 Thermal modelling of hybrid composites of nano cenosphere and polycarbonate for a thermal protection system. *RSC Advances*, **2014**, 4, 47529-47535 3.7 18
- 147 A nanocellular PVDF/graphite water-repellent composite coating. *RSC Advances*, **2015**, 5, 6743-6751 3.7 18
- 146 Controlled fabrication of non-fluoro polymer composite film with hierarchically nano structured fibers. *Progress in Organic Coatings*, **2014**, 77, 904-907 4.8 18
- 145 EPhase Cu-Phthalocyanine/Acrylonitrile Butadiene Styrene Terpolymer Nanocomposite Film Technology for Organoelectronic Applications. *Journal of Physical Chemistry C*, **2019**, 123, 28081-28092 3.8 17
- 144 Peeling model for cell adhesion on electrospun polymer nanofibres. *Journal of Adhesion Science and Technology*, **2014**, 28, 171-185 2 17
- 143 Development of Polymer Composite Beads for Dye Adsorption. *International Journal of Green Nanotechnology*, **2012**, 4, 440-454 17
- 142 3D Printing for Hip Implant Applications: A Review. *Polymers*, **2020**, 12, 4.5 17
- 141 High-temperature stability of yttria-stabilized zirconia thermal barrier coating on niobium alloy T-103. *Bulletin of Materials Science*, **2016**, 39, 321-329 1.7 16
- 140 Dielectric and conductivity investigation of polycarbonate-copper phthalocyanine electrospun nonwoven fibres for electrical and electronic application. *Polymer-Plastics Technology and Materials*, **2020**, 59, 154-168 1.5 16
- 139 Radar Transparent, Impact-Resistant, and High-Temperature Capable Radome Composites Using Polyetherimide-Toughened Cyanate Ester Resins for High-Speed Aircrafts through Resin Film Infusion. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7502-7511 3.9 16
- 138 Nanocomposite engineered carbon fabric-mat as a passive metamaterial for stealth application. *Journal of Alloys and Compounds*, **2020**, 848, 155771 5.7 15
- 137 Review of manufacturing three-dimensional-printed membranes for water treatment. *Environmental Science and Pollution Research*, **2020**, 27, 36091-36108 5.1 15

136	Processing trends of silk fibers: Silk degumming, regeneration and physical functionalization. <i>Journal of the Textile Institute</i> , 2020 , 111, 1794-1810	1.5	15
135	Antibacterial nanofibers of polyoxymethylene/gold for pro-hygiene applications. <i>International Journal of Plastics Technology</i> , 2015 , 19, 363-367	2.7	15
134	Facile Immobilization of Camphor Soot on Electrospun Hydrophobic Membrane for Oil-Water Separation. <i>Materials Focus</i> , 2018 , 7, 295-303		15
133	Poly(1,6-heptadiyne)/ABS functionalized microfibers for hydrophobic applications. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	15
132	Temperature Assisted in-Situ Small Angle X-ray Scattering Analysis of Ph-POSS/PC Polymer Nanocomposite. <i>Scientific Reports</i> , 2016 , 6, 29917	4.9	15
131	Laser Shielding and Thermal Ablation Characteristics of Resorcinol Formaldehyde/Boron Nitride Composites for Thermal Protection Systems. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10645-10655	3.9	15
130	Application of MXenes for water treatment and energy-efficient desalination: A review. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127050	12.8	15
129	Nanoencapsulated Core and Shell Electrospun Fibers of Resorcinol Formaldehyde. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7614-7622	3.9	14
128	Microbiologically extracted poly(hydroxyalkanoates) and its amalgams as therapeutic nano-carriers in anti-tumor therapies. <i>Materials Science and Engineering C</i> , 2020 , 111, 110799	8.3	14
127	Biomimetic Design of Artificial Materials Inspired by Iridescent Nacre Structure and Its Growth Mechanism. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1592-1606		14
126	Hierarchical Electrospun Super-Hydrophobic Nanocomposites of Fluoroelastomer. <i>Materials Focus</i> , 2018 , 7, 194-206		14
125	Nanocluster materials in photosynthetic machines. <i>Chemical Engineering Journal</i> , 2020 , 385, 123951	14.7	14
124	Experimental and computational studies of a graphene oxide barrier layer covalently functionalized with amino acids on Mg AZ13 alloy in salt medium.. <i>RSC Advances</i> , 2019 , 9, 32441-32447	3.7	14
123	Electroless nickel fabrication on surface modified magnesium substrates. <i>Defence Technology</i> , 2019 , 15, 636-644	3	13
122	Recent Advances in Additive Manufacturing of Bio-inspired Materials 2019 , 35-68		13
121	Electroless nickel coated nano-clay for electrolytic removal of Hg(II) ions. <i>RSC Advances</i> , 2014 , 4, 50614-50623	3.7	13
120	Polycarbonate and activated charcoal-engineered electrospun nanofibers for selective recovery of oil/solvent from oily wastewater. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	13
119	Thermal Ablation and Laser Shielding Characteristics of Ionic liquid-microseeded Functionalized Nanoclay/Resorcinol Formaldehyde Nanocomposites for Armor Protection. <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 1542-1555		12

118	Zirconium-Doped Hybrid Composite Systems for Ultrahigh-Temperature Oxidation Applications: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4711-4731	3.9	12
117	Nanotexturing of PC/n-HA nanocomposites by innovative and advanced spray system. <i>RSC Advances</i> , 2015 , 5, 13653-13659	3.7	12
116	Synthesis and Characterization of Mesoporous Hypercrosslinked Poly (Styrene Co- Maleic Anhydride) Microspheres. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012 , 61, 919-930	3	12
115	Foamed materials for oil-water separation. <i>Chemical Engineering Journal Advances</i> , 2021 , 5, 100076	3.6	12
114	Biological and mechanical enhancement of zirconium dioxide for medical applications. <i>Ceramics International</i> , 2020 , 46, 4041-4057	5.1	12
113	Superhydrophobic corrosion inhibition polymer coatings 2019 , 223-243		11
112	Tannins for wastewater treatment. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	11
111	Thermally triggered transition of fluid atomized micro- and nanotextured multiscale rough surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 549, 212-220	5.1	11
110	Polymer Fuel Cell Based on Polybenzimidazole Membrane: A Review. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 465-497	1.5	11
109	Nano-heat-sink thin film composite of PC/three-dimensional networked nano-fumed silica with exquisite hydrophobicity. <i>RSC Advances</i> , 2015 , 5, 4376-4384	3.7	11
108	Hyperbranched Polymer-based Nanocomposites: Synthesis, Progress, and Applications. <i>European Polymer Journal</i> , 2021 , 147, 110301	5.2	11
107	Bioabsorbable engineered nanobiomaterials for antibacterial therapy 2016 , 77-117		11
106	A review of microencapsulated thermochromic coatings for sustainable building applications 2021 , 18, 19-37		11
105	High temperature composite materials for electromagnetic applications through a cost effective manufacturing process; resin film infusion. <i>Materials Today: Proceedings</i> , 2020 , 33, 2217-2222	1.4	10
104	Advancements in Biological Neural Interfaces Using Conducting Polymers: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9707-9718	3.9	10
103	Engineered Smart Textiles and Janus Microparticles for Diverse Functional Industrial Applications. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 229-245	1.5	10
102	High performance structural nano cellulose composites for motor vehicle spring suspension system. <i>International Journal of Plastics Technology</i> , 2014 , 18, 383-389	2.7	10
101	Effect of TiO ₂ Powder on the Surface Morphology of Micro/Nanoporous Structured Hydrophobic Fluoropolymer Based Composite Material. <i>Journal of Polymers</i> , 2013 , 2013, 1-4		10

100	Advancement in Textile Technology for Defence Application. <i>Defence Science Journal</i> , 2013 , 63, 331-339	1.4	10
99	Polycarbazole and its derivatives: progress, synthesis, and applications. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	10
98	Silk Fibroin As an Immobilization Matrix for Sensing Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2015-2042	5.5	10
97	Effect of Ammonium Perchlorate Particle Size on Flow, Ballistic, and Mechanical Properties of Composite Propellant 2019 , 299-362		10
96	Cyanate Ester-Epoxy Blends for Structural and Functional Composites. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3260-3277	3.9	10
95	Molecular simulation of geometrically optimized polyoxymethylene/poly (vinylalcohol) gel membrane for electroless scrubbing Ni(II) ions. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 434-439	6.8	9
94	Structure-Property Correlation and Harvesting Power from Vibrations of Aerospace Vehicles by Nanocrystalline La _{0.7} Bi _{0.3} (Ni _{1/3} Sb _{2/3}) _{0.9} PbZrTiO ₃ Ferroelectric Ceramics Synthesized by Mechanical Activation. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 215-223	3.8	9
93	Bioactive Hybrid Composite Membrane with Enhanced Antimicrobial Properties for Biomedical Applications. <i>Defence Science Journal</i> , 2016 , 66, 434	1.4	9
92	Development of highly porous, Electrostatic force assisted nanofiber fabrication for biological applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020 , 69, 477-504	3	9
91	Ionic-liquid-assisted three-dimensional caged silica ablative nanocomposites. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45328	2.9	8
90	Effect of Zirconium Diboride Incorporation on Thermal Stability and Ablation Characteristics of Carbon Fiber-Reinforced Resorcinol-Formaldehyde Composites. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18623-18634	3.9	8
89	Development and characterization of a contoured passive thermal protection system. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 170-184	2	8
88	Thin film encapsulation of nano composites of polycarbonate (PC) for thermal management systems. <i>RSC Advances</i> , 2014 , 4, 63380-63386	3.7	8
87	An Electroconductive Filler for Shielding Plastics. <i>Macromolecular Symposia</i> , 2005 , 221, 185-196	0.8	8
86	Effect of Sintering Time on Dielectric and Piezoelectric Properties of Lanthanum Doped Pb(Ni _{1/3} Sb _{2/3})-PbZrTiO ₃ Ferroelectric Ceramics. <i>Defence Science Journal</i> , 2013 , 63, 418-422	1.4	8
85	Cellulose nanocrystals from agricultural resources: Extraction and functionalisation. <i>European Polymer Journal</i> , 2021 , 160, 110789	5.2	8
84	Three-dimensional printing of molluscan shell inspired architectures via fused deposition modeling. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 46356-46366	5.1	7
83	Corrosion inhibition of 316L-type stainless steel under marine environments using epoxy/waste plastic soot coatings. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	7

82	Dielectric Polymeric Compositions for Improved Electrical Properties of Flexible Electronics 2018 , 430-467	7
81	Synthesis, Characterization, and Development of PZT-Based Composition for Power Harvesting and Sensors Application 2015 , 551-577	7
80	Generation of Micro-Porous Honeycomb Foam of UHMWPE/PHB Blend by Supercritical CO ₂ . <i>Materials Focus</i> , 2016 , 5, 73-83	7
79	Functionally Layered Graphite Reinforced Epoxy Composite Sandwiched Between Epoxy Composites: Their Electrical and Flexural Properties. <i>Materials Focus</i> , 2017 , 6, 691-697	7
78	Nano-fluoro dispersion functionalized superhydrophobic degummed & waste silk fabric for sustained recovery of petroleum oils & organic solvents from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 426, 127822	12.8 7
77	Recent trends in nanothermites: Fabrication, characteristics and applications. <i>Nano Express</i> , 2020 , 1, 032001	7
76	Multifunctional conjugated 1,6-heptadiynes and its derivatives stimulated molecular electronics: Future moletronics. <i>European Polymer Journal</i> , 2020 , 124, 109467	5.2 7
75	Burning rate and other characteristics of strontium titanate (SrTiO ₃) supplemented AP/HTPB/Al composite propellants. <i>Defence Technology</i> , 2019 , 15, 313-318	3 7
74	Reduction of carbon dioxide (CO ₂) using Pt & Pd block electro-catalysts: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104798	6.8 7
73	The Importance of Electroless Metallic Build-Up on Surface Modified Substrates for Multifunctional Engineering Applications: A Recent Progress Update. <i>Transactions of the Indian Institute of Metals</i> , 2018 , 71, 2873-2892	1.2 7
72	Poly(1,6-heptadiyne)/NiFe ₂ O ₄ composite as capacitor for miniaturized electronics. <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 2018-2026	1.5 6
71	Fabrication of Bioactive Nano Assimilated Polymeric Scaffold for the Metamorphosis of Organs or Tissues: Triumph, Confrontation and Prospective. <i>Journal of Bionanoscience</i> , 2015 , 9, 167-180	6
70	Quantitative Evolution of Wetting Phenomena for Super Hydrophobic Surfaces. <i>Materials Focus</i> , 2018 , 7, 305-315	6
69	Effect of Boron Nitride Addition on Ablation Characteristics of Carbon Fiber Reinforced Resorcinol Formaldehyde Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19299-19311	3.9 6
68	Advanced polymeric composites via commingling for critical engineering applications. <i>Polymer Testing</i> , 2020 , 91, 106774	4.5 6
67	Ionic liquid microseeded WC/RF ablative composite for heat shielding. <i>RSC Advances</i> , 2016 , 6, 65152-65157	6
66	Rudiment of Galling: Tribological phenomenon for engineering components in aggregate with the advancement in functioning of the anti-galling coatings. <i>Surfaces and Interfaces</i> , 2019 , 17, 100383	4.1 6
65	Photoinduced hydrophilicity and self-cleaning characteristics of silicone-modified soya alkyd/TiO ₂ nanocomposite coating 2020 , 17, 719-730	6

64	Nanomaterials and the Environment 2020 , 1-23		5
63	Smart Electrospun Materials 2020 , 351-378		5
62	Experimental and DFT studies of porous carbon covalently functionalized by polyaniline as a corrosion inhibition barrier on nickel-based alloys in acidic media.. <i>RSC Advances</i> , 2020 , 10, 12151-12165	3.7	5
61	A review: advancements in fluoro-based polymers for aggrandizing anti-galling and wear resistant characteristics. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	5
60	Additive Manufacturing of Shape Memory Polymer Composites for Futuristic Technology. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	5
59	6. Aggrandized flexural properties of assorted natural biological materials 2019 , 111-140		5
58	Thermomechanical characteristics of h-BN- and POSS-based bisphenol A polycarbonate nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 1742-1756	1.5	4
57	Encapsulation of gold nanoparticles with PHB based on coffee ring effect. <i>RSC Advances</i> , 2015 , 5, 18501-18504	3.7	5
56	Polymeric immunosensors for tumor detection. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 032001	0.1	4
55	Carbon Xerogels for Effluent Treatment. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2255-2270	2.8	4
54	Nickel coated mica for conductive compounds. <i>Macromolecular Symposia</i> , 2003 , 194, 219-224	0.8	4
53	Graphene-based TiO composites for photocatalysis & environmental remediation: synthesis and progress.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	4
52	Laser Shielding Characteristics of Ionic Liquid Assisted Fumed Silica/Resorcinol Formaldehyde Nanocomposites. <i>Materials Focus</i> , 2017 , 6, 345-351		4
51	Harvesting Power Through Random Vibrations of Aerospace Vehicles from Nanostructured La-Pb(Ni _{1/3} Sb _{2/3}) - PbZrTiO ₃ Ferroelectric Ceramics. <i>Defence Science Journal</i> , 2016 , 66, 353	1.4	4
50	Glycopolymers in molecular recognition, biomimicking and glycotecchnology: a review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> ,1-21	3	4
49	4D printing: Pragmatic progression in biofabrication. <i>European Polymer Journal</i> , 2022 , 169, 111128	5.2	4
48	Fabrication of transparent paper devices from nanocellulose fiber. <i>Materials Chemistry and Physics</i> , 2022 , 125707	4.4	3
47	Pb(Ni _{1/3} Sb _{2/3})O ₃ -PbZrTiO ₃ Ceramic Sensors for Underwater Transducer Application. <i>Defence Science Journal</i> , 2012 , 62, 269-273	1.4	3

46	Thermal Effects in 3D Printed Parts. <i>Materials Horizons</i> , 2020 , 43-68	0.6	3
45	Overview of Failure Modes of Pseudo Compositionally Graded Thermal Barrier Coatings and Remedies for Augmenting the Service Life of the Coated Components. <i>Materials Focus</i> , 2018 , 7, 741-750		3
44	Fluorine-free superhydrophobic characterized coatings: A mini review. <i>Maritime Technology and Research</i> , 2021 , 3, 365-376	1.7	3
43	Fiber-Reinforced Composites for Restituting Automobile Leaf Spring Suspension System. <i>Materials Horizons</i> , 2021 , 67-105	0.6	3
42	Experimental and DFT studies of gadolinium decorated graphene oxide materials for their redox properties and as a corrosion inhibition barrier layer on Mg AZ13 alloy in a 3.5% NaCl environment.. <i>RSC Advances</i> , 2021 , 11, 22095-22105	3.7	3
41	Bioactive glass with biocompatible polymers for bone applications. <i>European Polymer Journal</i> , 2021 , 160, 110801	5.2	3
40	Epoxy/Glass Syntactic Foams for Structural and Functional Application-A Review. <i>European Polymer Journal</i> , 2022 , 111163	5.2	3
39	Molecular Dynamic Simulation Constructed Interaction Parameter Investigation between Poly(1,6-heptadiyne) and NiFe ₂ O ₄ in Nanocomposite. <i>Materials Today: Proceedings</i> , 2020 , 24, 1720-1728 ^{1.4}		2
38	Nano-engineered hybrid hydroxyapatite-grafted biocomposites for Euspria pulchella mimicking through chaotic flow regimes. <i>RSC Advances</i> , 2015 , 5, 14712-14719	3.7	2
37	Fabrication and molecular dynamics studies of layer-by-layer polyelectrolytic films. <i>European Polymer Journal</i> , 2022 , 163, 110945	5.2	2
36	Bioengineered solar harvesting systems for next generation applications. <i>Solar Energy</i> , 2022 , 231, 857-868	5.8	2
35	Mollusk-Inspired 3D Printing of Polycarbonate via Fused Deposition Modelling 2020 , 1-12		2
34	Metals to polymer composites for submerged hull: a paradigm shift. <i>Polymer-Plastics Technology and Materials</i> , 1-35	1.5	2
33	Polymer - phyllosilicate nanocomposites for high-temperature structural application. <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 573-591	1.5	2
32	The tactics of thermoelectric scaffolds with its advancements in engineering applications. <i>Polymer-Plastics Technology and Materials</i> , 2021 , 60, 1-24	1.5	2
31	Polycarbonate Nanocomposites for High Impact Applications 2021 , 1-25		2
30	Aramid Polycarbonate Resin Film Engineered Composite for Ballistic Protection: Engineered Layered Materials. <i>Materials Horizons</i> , 2021 , 49-66	0.6	2
29	Self-Healing Nanofibers for Engineering Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 3789-3816	3.9	2

28	Design and fabrication of biodegradable electrospun nanofibers loaded with biocidal agents. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> ,1-27	3	2
27	Barium Titanate: A Novel Perovskite Oxide Burning Rate Modifier for HTPB/AP/Al Based Composite Propellant Formulations. <i>Propellants, Explosives, Pyrotechnics</i> , 2019 , 44, 505-512	1.7	1
26	State-of-the-Art and Future Electrospun Technology 2020 , 441-482		1
25	Antimicrobial Electrospun Materials 2020 , 483-514		1
24	Anti-barnacle biofouling coatings for the protection of marine vessels: synthesis and progress.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 26078	5.1	1
23	Physical Characterization of Electrospun Fibers 2020 , 71-112		1
22	Toward sustainable performance of reservoir sedimentation in aquatic environment of Katery lake, Tamil Nadu, India. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 933-944	3.3	1
21	Mollusk-Inspired 3D Printing of Polycarbonate via Fused Deposition Modelling 2021 , 1493-1504		1
20	Functionalized non-woven surfaces for combating the spread of the COVID-19 pandemic.. <i>Interface Focus</i> , 2022 , 12, 20210040	3.9	1
19	Green composites prepared from soy protein, polylactic acid (PLA), starch, cellulose, chitin: a review. <i>Emergent Materials</i> ,1	3.5	1
18	Polycarbonate Nanocomposites for High Impact Applications 2022 , 257-281		1
17	Removal of Zwitterionic PFAS by MXenes: Comparisons with Anionic, Nonionic, and PFAS-Specific Resins.. <i>Environmental Science & Technology</i> , 2022 , 56, 6212-6222	10.3	1
16	Application of Electrospun Materials in Water Treatment 2020 , 151-183		0
15	Surface Preparation for Structural Adhesive Joints 2020 , 1-34		0
14	POSS nanocomposites for defense and space applications 2021 , 481-498		0
13	Hot-Melt Adhesives: Fundamentals, Formulations, and Applications: A Critical Review 2021 , 1-28		0
12	Application of MXenes for air purification, gas separation and storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 164, 112527	16.2	0
11	Correction to Bundamentals and Effects of Biomimicking Stimuli-Responsive Polymers for Engineering Functions□ <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4838-4841	3.9	

- 10 Deep-hydrogenation of aviation turbine fuel over highly active and robust magneto-sensitive nanocatalyst. *Brazilian Journal of Chemical Engineering*,1 1.7
- 9 Nanocrystalline PNS-PZT-Based Energy Harvester for Strategic Applications **2020**, 35-73
- 8 Nano-functionalized Polycarbonate Coatings for Heat Sink Applications **2019**, 1-35
- 7 Nanocrystalline PNS-PZT-Based Energy Harvester for Strategic Applications **2019**, 1-39
- 6 Thin films for planar solar cells of organic-inorganic perovskite composites **2021**, 95-115
- 5 Nano-functionalized Polycarbonate Coatings for Heat Sink Applications **2021**, 345-379
- 4 Different Techniques Used for the Incorporation of Inorganic Nanoparticles in XLPE Matrix. *Materials Horizons*, **2021**, 49-61 0.6
- 3 The effect of pigment volume concentration on self-stratification and physico-mechanical properties of solvent-free silicone/epoxy coating systems. *Polymer Bulletin*,1 2.4
- 2 Polymer Composites as Ablative Materials1-30
- 1 Pigmented silicone/epoxy novel blends for preparation of stratified nontoxic foul release coatings. *Journal of Coatings Technology Research*,1