

Bala Kandasubramanian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9220024/publications.pdf>

Version: 2024-02-01

255
papers

10,572
citations

30070

54
h-index

53230

85
g-index

267
all docs

267
docs citations

267
times ranked

8449
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of alginate-based hydrogel bioprinting for application in tissue engineering. <i>Biofabrication</i> , 2019, 11, 042001.	7.1	363
2	Effect of microplastics in water and aquatic systems. <i>Environmental Science and Pollution Research</i> , 2021, 28, 19544-19562.	5.3	307
3	Graphene and Graphene Oxide-Based Composites for Removal of Organic Pollutants: A Review. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 833-867.	1.9	284
4	Advancements in nanofibers for wound dressing: A review. <i>European Polymer Journal</i> , 2019, 117, 304-336.	5.4	277
5	Progress update on failure mechanisms of advanced thermal barrier coatings: A review. <i>Progress in Organic Coatings</i> , 2016, 90, 54-82.	3.9	216
6	Breakthrough in the printing tactics for stimuli-responsive materials: 4D printing. <i>Chemical Engineering Journal</i> , 2019, 366, 264-304.	12.7	175
7	Nanocellulose based biodegradable polymers. <i>European Polymer Journal</i> , 2020, 133, 109758.	5.4	175
8	Recent progress in fabrication and characterisation of hierarchical biomimetic superhydrophobic structures. <i>RSC Advances</i> , 2014, 4, 22053.	3.6	163
9	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.	10.3	159
10	Polymer composite for antistatic application in aerospace. <i>Defence Technology</i> , 2020, 16, 107-118.	4.2	159
11	Advancements in MXene-Polymer composites for various biomedical applications. <i>Ceramics International</i> , 2020, 46, 8522-8535.	4.8	144
12	Functionalized graphene materials for hydrogen storage. <i>Journal of Materials Science</i> , 2020, 55, 1865-1903.	3.7	135
13	Graphene and Graphene Oxide for Fuel Cell Technology. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9333-9350.	3.7	134
14	Progress in the Advancement of Porous Biopolymer Scaffold: Tissue Engineering Application. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6163-6194.	3.7	133
15	Recent advances in 2D MXenes for enhanced cation intercalation in energy harvesting Applications: A review. <i>Chemical Engineering Journal</i> , 2020, 392, 123678.	12.7	127
16	A polydopamine-based platform for anti-cancer drug delivery. <i>Biomaterials Science</i> , 2019, 7, 1776-1793.	5.4	117
17	Polymer matrix composites as broadband radar absorbing structures for stealth aircrafts. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47241.	2.6	114
18	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.	8.0	112

#	ARTICLE	IF	CITATIONS
19	Naturally biomimicked smart shape memory hydrogels for biomedical functions. <i>Chemical Engineering Journal</i> , 2020, 379, 122430.	12.7	112
20	Application of MXenes for water treatment and energy-efficient desalination: A review. <i>Journal of Hazardous Materials</i> , 2022, 423, 127050.	12.4	111
21	Processing and design methodologies for advanced and novel thermal barrier coatings for engineering applications. <i>Particuology</i> , 2016, 27, 1-28.	3.6	108
22	Progress in silk materials for integrated water treatments: Fabrication, modification and applications. <i>Chemical Engineering Journal</i> , 2019, 374, 437-470.	12.7	108
23	Mxene functionalized polymer composites: Synthesis and applications. <i>European Polymer Journal</i> , 2020, 122, 109367.	5.4	107
24	Functionalized Aramid Fibers and Composites for Protective Applications: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16537-16563.	3.7	104
25	4D printing of shape memory polymers. <i>European Polymer Journal</i> , 2020, 134, 109771.	5.4	101
26	Photoluminescent carbon soot particles derived from controlled combustion of camphor for superhydrophobic applications. <i>RSC Advances</i> , 2014, 4, 11331.	3.6	99
27	Graphene nanoribbon/PVA composite as EMI shielding material in the X band. <i>Nanotechnology</i> , 2013, 24, 455705.	2.6	98
28	Progress in the Development of Intrinsically Conducting Polymer Composites as Biosensors. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800561.	2.2	86
29	UHMWPE for biomedical applications: Performance and functionalization. <i>European Polymer Journal</i> , 2020, 125, 109529.	5.4	85
30	Needleless electrospun phytochemicals encapsulated nanofibre based 3-ply biodegradable mask for combating COVID-19 pandemic. <i>Chemical Engineering Journal</i> , 2021, 416, 129152.	12.7	85
31	A Review on Polymeric-Based Phase Change Material for Thermo-Regulating Fabric Application. <i>Polymer Reviews</i> , 2020, 60, 389-419.	10.9	77
32	Body armour materials: from steel to contemporary biomimetic systems. <i>RSC Advances</i> , 2016, 6, 115145-115174.	3.6	76
33	Recent advances in dendrimer-based nanoplatfrom for cancer treatment: A review. <i>European Polymer Journal</i> , 2020, 126, 109546.	5.4	76
34	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.	1.9	76
35	Mechanochemical and chemical recycling methodologies for the Fibre Reinforced Plastic (FRP). <i>Environmental Technology and Innovation</i> , 2019, 14, 100311.	6.1	75
36	Flexible Polymeric Substrates for Electronic Applications. <i>Polymer Reviews</i> , 2018, 58, 630-667.	10.9	73

#	ARTICLE	IF	CITATIONS
37	An experimental design for the investigation of water repellent property of candle soot particles. <i>Materials Chemistry and Physics</i> , 2014, 148, 134-142.	4.0	72
38	Biocompatible alkyl cyanoacrylates and their derivatives as bio-adhesives. <i>Biomaterials Science</i> , 2018, 6, 1691-1711.	5.4	71
39	Advances in Ablative Composites of Carbon Based Materials: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22663-22701.	3.7	70
40	Progressive trends in heavy metal ions and dyes adsorption using silk fibroin composites. <i>Environmental Science and Pollution Research</i> , 2020, 27, 210-237.	5.3	69
41	Silk fibres exhibiting biodegradability & superhydrophobicity for recovery of petroleum oils from oily wastewater. <i>Journal of Hazardous Materials</i> , 2020, 389, 121823.	12.4	69
42	Preparation of nickel coated mica as a conductive filler. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002, 33, 745-751.	7.6	68
43	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.	3.6	68
44	Modification of montmorillonite with aminopropylisooctyl polyhedral oligomeric silsesquioxane. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 164-170.	9.4	65
45	Encapsulation of therapeutic lavender oil in an electrolyte assisted polyacrylonitrile nanofibres for antibacterial applications. <i>RSC Advances</i> , 2014, 4, 54892-54901.	3.6	65
46	Biodegradable Polymeric Solid Framework-Based Organic Phase-Change Materials for Thermal Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10652-10677.	3.7	65
47	Fundamentals and Effects of Biomimicking Stimuli-Responsive Polymers for Engineering Functions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9709-9757.	3.7	63
48	Bionic creation of nano-engineered Janus fabric for selective oil/organic solvent absorption. <i>RSC Advances</i> , 2016, 6, 111250-111260.	3.6	62
49	Thermoplastic-Toughened High-Temperature Cyanate Esters and Their Application in Advanced Composites. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4479-4504.	3.7	62
50	Graphene aerogel-based phase changing composites for thermal energy storage systems. <i>Journal of Materials Science</i> , 2020, 55, 4127-4156.	3.7	62
51	Functionalized polylysine biomaterials for advanced medical applications: A review. <i>European Polymer Journal</i> , 2021, 146, 110248.	5.4	62
52	3D printed scaffolds for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020, 255, 123642.	4.0	60
53	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.	5.3	58
54	Nanocomposites of MXene for industrial applications. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158547.	5.5	58

#	ARTICLE	IF	CITATIONS
55	Effect of POSS on morphology and mechanical properties of polyamide 12/montmorillonite nanocomposites. <i>Applied Clay Science</i> , 2010, 47, 249-256.	5.2	55
56	Silk-Based Composite Scaffolds for Tissue Engineering Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17593-17611.	3.7	55
57	Polymeric thermoelectric PEDOT: PSS & composites: Synthesis, progress, and applications. <i>European Polymer Journal</i> , 2020, 132, 109726.	5.4	55
58	Molecular interactions and antimicrobial activity of curcumin (<i>Curcuma longa</i>) loaded polyacrylonitrile films. <i>Materials Chemistry and Physics</i> , 2014, 147, 934-941.	4.0	54
59	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.	5.3	53
60	Starch/PVA hydrogels for oil/water separation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32013-32028.	5.3	53
61	The dielectric properties and charge transport mechanism of π -conjugated segments decorated with intrinsic conducting polymer. <i>RSC Advances</i> , 2016, 6, 69733-69742.	3.6	52
62	Composite materials for supersonic aircraft radomes with ameliorated radio frequency transmission-a review. <i>RSC Advances</i> , 2016, 6, 6709-6718.	3.6	51
63	Nanostructured microporous polymer composite imprinted with superhydrophobic camphor soot, for emphatic oil-water separation. <i>RSC Advances</i> , 2014, 4, 53291-53296.	3.6	50
64	Uranium(VI) remediation from aqueous environment using impregnated cellulose beads. <i>Journal of Environmental Radioactivity</i> , 2014, 136, 22-29.	1.7	50
65	Foamed materials for oil-water separation. <i>Chemical Engineering Journal Advances</i> , 2021, 5, 100076.	5.2	50
66	Surface Characteristics of Polyhedral Oligomeric Silsesquioxane Modified Clay and Its Application in Polymerization of Macrocylic Polyester Oligomers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11915-11922.	2.6	49
67	Novel hybrid ablative composites of resorcinol formaldehyde as thermal protection systems for re-entry vehicles. <i>RSC Advances</i> , 2014, 4, 28956.	3.6	49
68	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, 111-121.	9.4	48
69	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.	1.0	47
70	Heavy and toxic metal uptake by mesoporous hypercrosslinked SMA beads: Isotherms and kinetics. <i>Journal of Saudi Chemical Society</i> , 2016, 20, S579-S590.	5.2	47
71	Ion-imprinted nanofibers of PVDF/1-butyl-3-methylimidazolium tetrafluoroborate for dynamic recovery of europium (III) ions from mimicked effluent. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103068.	6.7	47
72	Advancements in Hydrogel-Functionalized Immunosensing Platforms. <i>ACS Omega</i> , 2020, 5, 2060-2068.	3.5	46

#	ARTICLE	IF	CITATIONS
73	Antibacterial application of polyvinylalcohol-nanogold composite membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 455, 174-178.	4.7	45
74	3D Printing for Hip Implant Applications: A Review. <i>Polymers</i> , 2020, 12, 2682.	4.5	45
75	Functionalised graphene as flexible electrodes for polymer photovoltaics. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153954.	5.5	45
76	Graphene-based TiO ₂ composites for photocatalysis & environmental remediation: synthesis and progress. <i>Environmental Science and Pollution Research</i> , 2022, 29, 32305-32325.	5.3	45
77	Magnetodielectric Microwave Radiation Absorbent Materials and Their Polymer Composites. <i>Journal of Electronic Materials</i> , 2018, 47, 6335-6365.	2.2	44
78	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.	2.6	44
79	Hybrid Carbon-Carbon Ablative Composites for Thermal Protection in Aerospace. <i>Journal of Composites</i> , 2014, 2014, 1-15.	0.8	43
80	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.	3.6	43
81	Fused deposition processing polycaprolactone of composites for biomedical applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1365-1398.	1.3	43
82	Electrospun nanofiber-based cancer sensors: A review. <i>International Journal of Pharmaceutics</i> , 2020, 583, 119364.	5.2	43
83	Review on 3D Prototyping of Damage Tolerant Interdigitating Brick Arrays of Nacre. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10516-10525.	3.7	42
84	Biomimicking of Hierarchical Molluscan Shell Structure Via Layer by Layer 3D Printing. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10832-10840.	3.7	42
85	Application of MXenes for air purification, gas separation and storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112527.	16.4	42
86	Morphology and properties of silane-modified montmorillonite clays and clay/PBT composites. <i>Journal of Applied Polymer Science</i> , 2008, 110, 550-557.	2.6	40
87	Egg albumin PVA hybrid membranes for antibacterial application. <i>Materials Letters</i> , 2013, 110, 130-133.	2.6	39
88	Metallization of electrospun PAN nanofibers via electroless gold plating. <i>RSC Advances</i> , 2015, 5, 24990-24996.	3.6	39
89	Kinetic and isotherm analysis for selective thorium(IV) retrieval from aqueous environment using eco-friendly cellulose composite. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3095-3106.	3.5	39
90	Polyacrylonitrile/Syzygium aromaticum hierarchical hydrophilic nanocomposite as a carrier for antibacterial drug delivery systems. <i>RSC Advances</i> , 2015, 5, 3291-3298.	3.6	39

#	ARTICLE	IF	CITATIONS
91	Metal Organic Framework Functionalized Fabrics for Detoxification of Chemical Warfare Agents. Industrial & Engineering Chemistry Research, 2020, 59, 569-586.	3.7	39
92	Cellulose nanocrystals from agricultural resources: Extraction and functionalisation. European Polymer Journal, 2021, 160, 110789.	5.4	39
93	Structural and Thermal Stability of Polycarbonate Decorated Fumed Silica Nanocomposite via Thermomechanical Analysis and In-situ Temperature Assisted SAXS. Scientific Reports, 2017, 7, 7706.	3.3	38
94	Review on Three-Dimensionally Emulated Fiber-Embedded Lactic Acid Polymer Composites: Opportunities in Engineering Sector. Polymer-Plastics Technology and Engineering, 2018, 57, 860-874.	1.9	38
95	Nanotechnology for Oil-Water Separation. Nanotechnology in the Life Sciences, 2019, , 299-339.	0.6	38
96	A review of microencapsulated thermochromic coatings for sustainable building applications. Journal of Coatings Technology Research, 2021, 18, 19-37.	2.5	38
97	Tannins for wastewater treatment. SN Applied Sciences, 2020, 2, 1.	2.9	36
98	Nanocomposite engineered carbon fabric-mat as a passive metamaterial for stealth application. Journal of Alloys and Compounds, 2020, 848, 155771.	5.5	36
99	Hierarchically porous PVDF/nano-SiC foam for distant oil-spill cleanups. RSC Advances, 2014, 4, 53761-53767.	3.6	35
100	Electronic properties of Poly(1,6-heptadiynes) electrospun fibrous non-woven mat. Materials Chemistry and Physics, 2019, 223, 343-352.	4.0	35
101	Biological and mechanical enhancement of zirconium dioxide for medical applications. Ceramics International, 2020, 46, 4041-4057.	4.8	35
102	Technical textiles for military applications. Journal of the Textile Institute, 2020, 111, 273-308.	1.9	35
103	Review of manufacturing three-dimensional-printed membranes for water treatment. Environmental Science and Pollution Research, 2020, 27, 36091-36108.	5.3	35
104	Nano-fluoro dispersion functionalized superhydrophobic degummed & waste silk fabric for sustained recovery of petroleum oils & organic solvents from wastewater. Journal of Hazardous Materials, 2022, 426, 127822.	12.4	35
105	PCL/PVA nanoencapsulated reinforcing fillers of steam exploded/autoclaved cellulose nanofibrils for tissue engineering applications. RSC Advances, 2015, 5, 23999-24008.	3.6	34
106	Reticulated three-dimensional network ablative composites for heat shields in thermal protection systems. RSC Advances, 2014, 4, 43708-43719.	3.6	33
107	Keratin-Nylon 6 engineered microbeads for adsorption of Th (IV) ions from liquid effluents. Journal of Environmental Chemical Engineering, 2017, 5, 5655-5667.	6.7	33
108	NiFe ₂ O ₄ /Poly(1,6-heptadiyne) Nanocomposite Energy-Storage Device for Electrical and Electronic Applications. ACS Omega, 2018, 3, 15256-15266.	3.5	33

#	ARTICLE	IF	CITATIONS
109	Additive Manufacturing of Shape Memory Polymer Composites for Futuristic Technology. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15885-15912.	3.7	33
110	Molecularly imprinted and nanoengineered camphor soot functionalized PAN-nanofibers for effluent treatment. <i>RSC Advances</i> , 2015, 5, 31732-31741.	3.6	32
111	Effect of POSS on crystalline transitions and physical properties of polyamide 12. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 121-129.	2.1	31
112	Hybrid caged nanostructure ablative composites of octaphenyl-POSS/RF as heat shields. <i>RSC Advances</i> , 2015, 5, 8757-8769.	3.6	30
113	Adsorption of arsenic (V) ions onto cellulosic-ferric oxide system: kinetics and isotherm studies. <i>Desalination and Water Treatment</i> , 2016, 57, 9420-9436.	1.0	30
114	β -Phase Cu-Phthalocyanine/Acrylonitrile Butadiene Styrene Terpolymer Nanocomposite Film Technology for Organoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28081-28092.	3.1	30
115	Radar Transparent, Impact-Resistant, and High-Temperature Capable Radome Composites Using Polyetherimide-Toughened Cyanate Ester Resins for High-Speed Aircrafts through Resin Film Infusion. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7502-7511.	3.7	30
116	Processing trends of silk fibers: Silk degumming, regeneration and physical functionalization. <i>Journal of the Textile Institute</i> , 2020, 111, 1794-1810.	1.9	29
117	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.	7.3	28
118	Bionic Prototyping of Honeycomb Patterned Polymer Composite and Its Engineering Application. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1828-1844.	1.9	28
119	Rapid investigation expiry drug green corrosion inhibitor on mild steel in NaCl medium. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 249, 114423.	3.5	28
120	Epoxy/hollow glass microsphere syntactic foams for structural and functional application-A review. <i>European Polymer Journal</i> , 2022, 171, 111163.	5.4	28
121	Chemically modified polymer beads for sorption of gold from waste gold solution. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 447-451.	12.4	27
122	Thermally Triggered Transition of Superhydrophobic Characteristics of Micro- and Nanotextured Multiscale Rough Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14201-14213.	3.1	27
123	Adsorption potency of imprinted Starch/PVA polymers confined ionic liquid with molecular simulation framework. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2147-2154.	6.7	27
124	Polycarbonate and activated charcoal-engineered electrospun nanofibers for selective recovery of oil/solvent from oily wastewater. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	27
125	Silk Fibroin As an Immobilization Matrix for Sensing Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2015-2042.	5.2	27
126	Green composites prepared from soy protein, polylactic acid (PLA), starch, cellulose, chitin: a review. <i>Emergent Materials</i> , 2022, 5, 727-753.	5.7	27

#	ARTICLE	IF	CITATIONS
127	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.	2.2	26
128	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.	2.2	26
129	Cyanate Ester–Epoxy Blends for Structural and Functional Composites. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3260-3277.	3.7	26
130	4D printing: Pragmatic progression in biofabrication. <i>European Polymer Journal</i> , 2022, 169, 111128.	5.4	26
131	Cost-effective, low density, carbon soot doped resorcinol formaldehyde composite for ablative applications. <i>RSC Advances</i> , 2015, 5, 23622-23634.	3.6	25
132	Exploration of elastomeric and polymeric liquid crystals with photothermal actuation: A review. <i>European Polymer Journal</i> , 2019, 121, 109287.	5.4	25
133	Electroless nickel fabrication on surface modified magnesium substrates. <i>Defence Technology</i> , 2019, 15, 636-644.	4.2	25
134	Polycarbazole and its derivatives: progress, synthesis, and applications. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	25
135	Carbon Xerogels for Effluent Treatment. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 2255-2270.	1.9	25
136	Hyperbranched Polymer-based Nanocomposites: Synthesis, Progress, and Applications. <i>European Polymer Journal</i> , 2021, 147, 110301.	5.4	25
137	Investigation of dielectric properties of free standing electrospun nonwoven mat. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46121.	2.6	24
138	Recent trends in nanothermites: Fabrication, characteristics and applications. <i>Nano Express</i> , 2020, 1, 032001.	2.4	23
139	Facile Immobilization of Camphor Soot on Electrospun Hydrophobic Membrane for Oil-Water Separation. <i>Materials Focus</i> , 2018, 7, 295-303.	0.4	23
140	A nanocellular PVDF–graphite water-repellent composite coating. <i>RSC Advances</i> , 2015, 5, 6743-6751.	3.6	22
141	Polymer Fuel Cell Based on Polybenzimidazole Membrane: A Review. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 465-497.	1.3	22
142	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.	3.6	22
143	Self-Healing Nanofibers for Engineering Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3789-3816.	3.7	22
144	Controlled anisotropic wetting behaviour of multi-scale slippery surface structure of non fluoro polymer composite. <i>EXPRESS Polymer Letters</i> , 2013, 7, 900-909.	2.1	21

#	ARTICLE	IF	CITATIONS
145	Fabrication, Physicochemical Characterizations and Electrical Conductivity Studies of Modified Carbon Nanofiber-Reinforced Epoxy Composites: Effect of 1-Butyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 218-228.	1.9	21
146	Poly(1,6-heptadiyne)/ABS functionalized microfibers for hydrophobic applications. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	21
147	Removal of Zwitterionic PFAS by MXenes: Comparisons with Anionic, Nonionic, and PFAS-Specific Resins. <i>Environmental Science & Technology</i> , 2022, 56, 6212-6222.	10.0	21
148	Development of Polymer Composite Beads for Dye Adsorption. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 440-454.	0.3	20
149	Peeling model for cell adhesion on electrospun polymer nanofibres. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 171-185.	2.6	20
150	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.	3.7	20
151	Reduction of carbon dioxide (CO ₂) using \tilde{p} & \tilde{d} block electro-catalysts: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104798.	6.7	20
152	Bioactive glass with biocompatible polymers for bone applications. <i>European Polymer Journal</i> , 2021, 160, 110801.	5.4	20
153	Controlled fabrication of non-fluoro polymer composite film with hierarchically nano structured fibers. <i>Progress in Organic Coatings</i> , 2014, 77, 904-907.	3.9	19
154	Thermal modelling of hybrid composites of nano cenosphere and polycarbonate for a thermal protection system. <i>RSC Advances</i> , 2014, 4, 47529-47535.	3.6	19
155	Antibacterial nanofibers of polyoxymethylene/gold for pro-hygiene applications. <i>International Journal of Plastics Technology</i> , 2015, 19, 363-367.	3.1	19
156	Dielectric and conductivity investigation of polycarbonate-copper phthalocyanine electrospun nonwoven fibres for electrical and electronic application. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 154-168.	1.3	19
157	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.	3.7	19
158	Hierarchical Electrospun Super-Hydrophobic Nanocomposites of Fluoroelastomer. <i>Materials Focus</i> , 2018, 7, 194-206.	0.4	19
159	Advancement in Textile Technology for Defence Application. <i>Defence Science Journal</i> , 2013, 63, 331-339.	0.8	19
160	Nanoencapsulated Core and Shell Electrospun Fibers of Resorcinol Formaldehyde. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7614-7622.	3.7	18
161	Temperature Assisted in-Situ Small Angle X-ray Scattering Analysis of Ph-POSS/PC Polymer Nanocomposite. <i>Scientific Reports</i> , 2016, 6, 29917.	3.3	18
162	High-temperature stability of yttria-stabilized zirconia thermal barrier coating on niobium alloy \tilde{C} -103. <i>Bulletin of Materials Science</i> , 2016, 39, 321-329.	1.7	18

#	ARTICLE	IF	CITATIONS
163	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.	1.9	18
164	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.	3.7	18
165	Nanocluster materials in photosynthetic machines. <i>Chemical Engineering Journal</i> , 2020, 385, 123951.	12.7	18
166	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.	1.8	18
167	A mini-review on the recent advancement of electrospun MOF-derived nanofibers for energy storage. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100355.	5.2	18
168	Electroless nickel coated nano-clay for electrolytic removal of Hg(ii) ions. <i>RSC Advances</i> , 2014, 4, 50614-50623.	3.6	16
169	Recent Advances in Additive Manufacturing of Bio-inspired Materials. , 2019, , 35-68.		16
170	Zirconium-Doped Hybrid Composite Systems for Ultrahigh-Temperature Oxidation Applications: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4711-4731.	3.7	15
171	Effect of Ammonium Perchlorate Particle Size on Flow, Ballistic, and Mechanical Properties of Composite Propellant. , 2019, , 299-362.		15
172	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.	3.4	15
173	Advanced polymeric composites via commingling for critical engineering applications. <i>Polymer Testing</i> , 2020, 91, 106774.	4.8	15
174	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.	7.3	15
175	Advancements in Biological Neural Interfaces Using Conducting Polymers: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9707-9718.	3.7	15
176	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.	6.7	14
177	Bioactive Hybrid Composite Membrane with Enhanced Antimicrobial Properties for Biomedical Applications. <i>Defence Science Journal</i> , 2016, 66, 434.	0.8	14
178	A systematic review of cellulosic material for green electronics devices. <i>Carbohydrate Polymer Technologies and Applications</i> , 2022, 4, 100234.	2.6	14
179	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.	3.4	13
180	High performance structural nano cellulose composites for motor vehicle spring suspension system. <i>International Journal of Plastics Technology</i> , 2014, 18, 383-389.	3.1	13

#	ARTICLE	IF	CITATIONS
181	Thin film encapsulation of nano composites of polycarbonate (PC) for thermal management systems. RSC Advances, 2014, 4, 63380-63386.	3.6	13
182	Nanotexturing of PC/n-HA nanocomposites by innovative and advanced spray system. RSC Advances, 2015, 5, 13653-13659.	3.6	13
183	Thermal Ablation and Laser Shielding Characteristics of Ionic liquid-microseeded Functionalized Nanoclay/Resorcinol Formaldehyde Nanocomposites for Armor Protection. Polymer-Plastics Technology and Engineering, 2017, 56, 1542-1555.	1.9	13
184	Engineered Smart Textiles and Janus Microparticles for Diverse Functional Industrial Applications. Polymer-Plastics Technology and Materials, 2019, 58, 229-245.	1.3	13
185	Superhydrophobic corrosion inhibition polymer coatings. , 2019, , 223-243.		13
186	Burning rate and other characteristics of strontium titanate (SrTiO ₃) supplemented AP/HTPB/Al composite propellants. Defence Technology, 2019, 15, 313-318.	4.2	13
187	Three-dimensional printing of molluscan shell inspired architectures via fused deposition modeling. Environmental Science and Pollution Research, 2021, 28, 46356-46366.	5.3	13
188	Fabrication of transparent paper devices from nanocellulose fiber. Materials Chemistry and Physics, 2022, 281, 125707.	4.0	13
189	Bioengineered solar harvesting systems for next generation applications. Solar Energy, 2022, 231, 857-879.	6.1	13
190	Design and fabrication of biodegradable electrospun nanofibers loaded with biocidal agents. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 433-459.	3.4	13
191	Effect of TiO ₂ Powder on the Surface Morphology of Micro/Nanoporous Structured Hydrophobic Fluoropolymer Based Composite Material. Journal of Polymers, 2013, 2013, 1-4.	0.9	12
192	Nano-heat-sink thin film composite of PC/three-dimensional networked nano-fumed silica with exquisite hydrophobicity. RSC Advances, 2015, 5, 4376-4384.	3.6	12
193	Bioabsorbable engineered nanobiomaterials for antibacterial therapy. , 2016, , 77-117.		12
194	Ionic-liquid-assisted three-dimensional caged silica ablative nanocomposites. Journal of Applied Polymer Science, 2017, 134, 45328.	2.6	12
195	Thermally triggered transition of fluid atomized micro- and nanotextured multiscale rough surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 212-220.	4.7	12
196	Quantitative Evolution of Wetting Phenomena for Super Hydrophobic Surfaces. Materials Focus, 2018, 7, 305-315.	0.4	11
197	Synthesis, Characterization, and Development of PZT-Based Composition for Power Harvesting and Sensors Application. , 2015, , 551-577.		10
198	The Importance of Electroless Metallic Build-Up on Surface Modified Substrates for Multifunctional Engineering Applications: A Recent Progress Update. Transactions of the Indian Institute of Metals, 2018, 71, 2873-2892.	1.5	10

#	ARTICLE	IF	CITATIONS
199	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.	3.0	10
200	Corrosion inhibition of 316L-type stainless steel under marine environments using epoxy/waste plastic soot coatings. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	10
201	Anti-barnacle biofouling coatings for the protection of marine vessels: synthesis and progress. <i>Environmental Science and Pollution Research</i> , 2022, 29, 26078-26112.	5.3	10
202	An Electroconductive Filler for Shielding Plastics. <i>Macromolecular Symposia</i> , 2005, 221, 185-196.	0.7	9
203	Structure-Property Correlation and Harvesting Power from Vibrations of Aerospace Vehicles by Nanocrystalline $\text{La}^{1/3}\text{Pb}(\text{Ni}_{1/3}\text{Sb}_{2/3})\text{PbZrTiO}_3$ Ferroelectric Ceramics Synthesized by Mechanical Activation. <i>Journal of the American Ceramic Society</i> , 2017, 100, 215-223.	3.8	9
204	Dielectric Polymeric Compositions for Improved Electrical Properties of Flexible Electronics. , 2018, , 430-467.		9
205	Development and characterization of a contoured passive thermal protection system. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 170-184.	2.1	9
206	Multifunctional conjugated 1,6-heptadiynes and its derivatives stimulated molecular electronics: Future moletronics. <i>European Polymer Journal</i> , 2020, 124, 109467.	5.4	9
207	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.	0.4	9
208	Functionally Layered Graphite Reinforced Epoxy Composite Sandwiched Between Epoxy Composites: Their Electrical and Flexural Properties. <i>Materials Focus</i> , 2017, 6, 691-697.	0.4	9
209	Fabrication and molecular dynamics studies of layer-by-layer polyelectrolytic films. <i>European Polymer Journal</i> , 2022, 163, 110945.	5.4	9
210	A review: advancements in fluoro-based polymers for aggrandizing anti-galling and wear resistant characteristics. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	8
211	Polymeric immunosensors for tumor detection. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 032001.	1.2	8
212	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.	3.6	8
213	Effect of Sintering Time on Dielectric and Piezoelectric Properties of Lanthanum Doped $\text{Pb}(\text{Ni}_{1/3}\text{Sb}_{2/3})\text{-PbZrTiO}_3$ Ferroelectric Ceramics. <i>Defence Science Journal</i> , 2013, 63, 418-422.	0.8	8
214	Functionalized non-woven surfaces for combating the spread of the COVID-19 pandemic. <i>Interface Focus</i> , 2022, 12, 20210040.	3.0	8
215	Ionic liquid microseeded WC/RF ablative composite for heat shielding. <i>RSC Advances</i> , 2016, 6, 65152-65161.	3.6	7
216	Photoinduced hydrophilicity and self-cleaning characteristics of silicone-modified soya alkyd/TiO ₂ nanocomposite coating. <i>Journal of Coatings Technology Research</i> , 2020, 17, 719-730.	2.5	7

#	ARTICLE	IF	CITATIONS
217	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.	1.3	7
218	Generation of Micro-Porous Honeycomb Foam of UHMWPE/PHB Blend by Supercritical CO ₂ . <i>Materials Focus</i> , 2016, 5, 73-83.	0.4	7
219	Biodegradable polyphosphazene “ hydroxyapatite composites for bone tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 1093-1111.	3.4	7
220	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.	3.6	6
221	Glycopolymers in molecular recognition, biomimicking and glycotecnology: a review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 756-776.	3.4	6
222	Fluorine-free superhydrophobic characterized coatings: A mini review. <i>Maritime Technology and Research</i> , 2021, 3, 365-376.	0.7	6
223	Nickel coated mica for conductive compounds. <i>Macromolecular Symposia</i> , 2003, 194, 219-224.	0.7	5
224	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.	1.6	5
225	6. Aggrandized flexural properties of assorted natural biological materials. , 2019, , 111-140.		5
226	POSS nanocomposites for defense and space applications. , 2021, , 481-498.		5
227	Laser Shielding Characteristics of Ionic Liquid Assisted Fumed Silica/Resorcinol Formaldehyde Nanocomposites. <i>Materials Focus</i> , 2017, 6, 345-351.	0.4	5
228	Thermal Effects in 3D Printed Parts. <i>Materials Horizons</i> , 2020, , 43-68.	0.6	5
229	Polycarbonate Nanocomposites for High Impact Applications. , 2022, , 257-281.		5
230	Encapsulation of gold nanoparticles with PHB based on coffee ring effect. <i>RSC Advances</i> , 2015, 5, 18501-18505.	3.6	4
231	Thermomechanical characteristics of h-BN- and POSS-based bisphenol A polycarbonate nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1742-1756.	1.3	4
232	Polymer - phyllosilicate nanocomposites for high-temperature structural application. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 573-591.	1.3	4
233	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.	1.8	4
234	The tactics of thermoelectric scaffolds with its advancements in engineering applications. <i>Polymer-Plastics Technology and Materials</i> , 2021, 60, 1-24.	1.3	4

#	ARTICLE	IF	CITATIONS
235	Metals to polymer composites for submerged hull: a paradigm shift. <i>Polymer-Plastics Technology and Materials</i> , 0, , 1-35.	1.3	4
236	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.	0.8	4
237	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.	0.8	4
238	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.	0.4	4
239	Effect of repeated thermal cycle on compressive properties of cyanate ester/quartz-based composites. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	4
240	Nano-engineered hybrid hydroxyapatite-grafted biocomposites for <i>Euspria pulchella</i> mimicking through chaotic flow regimes. <i>RSC Advances</i> , 2015, 5, 14712-14719.	3.6	3
241	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.	3.5	3
242	Fiber-Reinforced Composites for Restituting Automobile Leaf Spring Suspension System. <i>Materials Horizons</i> , 2021, , 67-105.	0.6	3
243	Aramid Polycarbonate Resin Film Engineered Composite for Ballistic Protection: Engineered Layered Materials. <i>Materials Horizons</i> , 2021, , 49-66.	0.6	3
244	Evaluation of Strontium Ferrite (SrFe ₁₂ O ₁₉) in Ammonium Perchlorate-based Composite Propellant Formulations. <i>Central European Journal of Energetic Materials</i> , 2019, 16, 105-121.	0.4	3
245	Mollusk-Inspired 3D Printing of Polycarbonate via Fused Deposition Modelling. , 2021, , 1493-1504.		2
246	Nano-functionalized Polycarbonate Coatings for Heat Sink Applications. , 2021, , 345-379.		2
247	Overmoulding of Electronics for End of Life Recovery. , 0, , .		1
248	Thin films for planar solar cells of organic-inorganic perovskite composites. , 2021, , 95-115.		1
249	The effect of pigment volume concentration on self-stratification and physico-mechanical properties of solvent-free silicone/epoxy coating systems. <i>Polymer Bulletin</i> , 2023, 80, 2045-2067.	3.3	1
250	Pigmented silicone/epoxy novel blends for preparation of stratified nontoxic foul release coatings. <i>Journal of Coatings Technology Research</i> , 0, , 1.	2.5	1
251	Different Techniques Used for the Incorporation of Inorganic Nanoparticles in XLPE Matrix. <i>Materials Horizons</i> , 2021, , 49-61.	0.6	0
252	Nano-functionalized Polycarbonate Coatings for Heat Sink Applications. , 2019, , 1-35.		0

#	ARTICLE	IF	CITATIONS
253	Nanocrystalline PNS-PZT-Based Energy Harvester for Strategic Applications. , 2019, , 1-39.		0
254	Nanocrystalline PNS-PZT-Based Energy Harvester for Strategic Applications. , 2020, , 35-73.		0
255	Deep-hydrogenation of aviation turbine fuel over highly active and robust magneto-sensitive nanocatalyst. Brazilian Journal of Chemical Engineering, 0, , 1.	1.3	0