Prabunathan P

List of Publications by Year
in descending order

45 papers	696 citations	516681 16 h-index	642715 23 g-index
45 all docs	45 docs citations	45 times ranked	617 citing authors

#	Article	IF	Citations
1	Fabrication of Ag-TiO2/Cardanol Epoxy-Based Composite Coatings Against Microbiologically Influenced Corrosion of Mild Steel. Journal of Polymers and the Environment, 2022, 30, 1528-1546.	5.0	5
2	Fluorine free TiO2/cyanate esterÂcoated cotton fabric with low surface free energy and rough surface for durable oilâ€“water separation. Cellulose, 2021, 28, 4847-4863.	4.9	10
3	[Zn(Salen)] metal complex-derived ZnO-implanted carbon slabs as anode material for lithium-ion and sodium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 3886-3896.	5.9	9
4	Crystal structures and dielectric properties of 4,4â€²-dimethyl-6,6â€²-dichlorothioindigo (Pigment Red 181). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 23-30.	1.1	1
5	Cardanol-Imidazole Based Benzoxazine Blends and Bio-silica Reinforced Composites with Enhanced Surface, Thermal and Dielectric Properties. Journal of Polymers and the Environment, 2020, 28, 918-933.	5.0	24
6	Blends of Chalcone Benzoxazine and Bio-benzoxazines Coated Cotton Fabrics for Oilâ€“Water Separation and Bio-silica Reinforced Nanocomposites for Low-k Applications. Journal of Polymers and the Environment, 2020, 28, 598-613.	5.0	37
7	Antiwetting and low-surface-energy behavior of cardanol-based polybenzoxazine-coated cotton fabrics for oilâ€“water separation. Journal of Coatings Technology Research, 2020, 17, 1455-1469.	2.5	15
8	Temperature dependent electrical properties of YSZ synthesized through microwave combustion. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	6
9	Synthesis and characterisation of sodium silicate from spent foundry sand: Effective route for waste utilisation. Journal of Cleaner Production, 2020, 264, 121689.	9.3	12
10	Fluorine Free Bio-Based Polybenzoxazine Coated Substrates for Oil-Water Separation and Anti-Icing Applications. Journal of Polymers and the Environment, 2020, 28, 2444-2456.	5.0	15
11	Bio-based polybenzoxazine composites for oil-water separation, sound absorption and corrosion resistance applications. Polymer Testing, 2020, 86, 106443.	4.8	52
12	Polypyrrole inter-layered low temperature curing benzoxazine matrices with enhanced thermal and dielectric properties. Journal of Polymer Research, 2020, 27, 1.	2.4	12
13	Exploration of high corrosion resistance property of less hazardous pyrazolidine-based benzoxazines in comparison with bisphenol-F derivatives. Journal of Coatings Technology Research, 2020, 17, 921-935.	2.5	7
14	Partially Exfoliated Î±-ZrP Reinforced Unsaturated Polyester Nanocomposites by Simultaneous Co-polymerization and BrÃ¸nsted Acidâ€“Base Strategy. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4095-4105.	3.7	11
15	Studies on heterocyclic amines based cardanolâ€benzoxazine for oilâ€water separation. Polymer Engineering and Science, 2020, 60, 1494-1506.	3.1	20
16	Synthesis and studies on phosphazene core-based POSS-reinforced polyimide nanocomposites. Polymer Bulletin, 2019, 76, 387-407.	3.3	29
17	Fluorinated polyimide nanocomposites for low K dielectric applications. Journal of Polymer Research, 2019, 26, 1.	2.4	25
18	Synthesis of Nontoxic Pyrazolidine-Based Benzoxazine-Coated Cotton Fabric for Oilâ€“Water Separation. Industrial & Engineering Chemistry Research, 2019, 58, 21419-21430.	3.7	31

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19	Multifunctional behavior of POSS-reinforced imidazole core polyimide nanocomposites. Polymer Bulletin, 2019, 76, 5059-5075.	3.3	15
20	Ceria doped mullite reinforced polybenzoxazine nanocomposites with improved UVâ€shielding and thermoâ€mechanical properties. Polymer Composites, 2018, 39, 2073-2080.	4.6	8
21	Exploring Ag-doped Mullite as High Dielectric and Antimicrobial Reinforcement with Polybenzoxazine Matrix. Polymer-Plastics Technology and Engineering, 2018, 57, 394-403.	1.9	3
22	Development of biomass-derived functionalized activated carbon-coated and polyaniline-grafted cotton fabric with enhanced ultraviolet resistance. Journal of Industrial Textiles, 2018, 47, 1609-1625.	2.4	11
23	Bio-silicon reinforced siloxane core polyimide green nanocomposite with multifunctional behavior. High Performance Polymers, 2018, 30, 549-560.	1.8	10
24	Facile synthesis of a hierarchical CuS/CuSCN nanocomposite with advanced energy storage properties. New Journal of Chemistry, 2018, 42, 15387-15396.	2.8	10
25	Design of low dielectric constant polybenzoxazine nanocomposite using mesoporous mullite. High Performance Polymers, 2017, 29, 141-150.	1.8	8
26	Optical and thermomechanical behavior of benzoxazine functionalized ZnO reinforced polybenzoxazine nanocomposites. Polymer Composites, 2017, 38, 1881-1889.	4.6	18
27	Achieving low dielectric, surface free energy and UV shielding green nanocomposites via reinforcing bio-silica aerogel with polybenzoxazine. New Journal of Chemistry, 2017, 41, 5313-5321.	2.8	23
28	Polybenzoxazine-Based Organic-Inorganic Nanohybrid Materials for High Performance Engineering Applications. , 2017, , 801-834.		2
29	Studies on electrical properties of microwave assisted synthesis of NiO/YSZ composites for highÂ-performance anode in solid oxide fuel cell. Materials Technology, 2017, 32, 638-645.	3.0	8
30	Photoluminescence and Electrochemical Behaviors of Polybenzimidazole-Grafted Carbon Nanotubes. Polymer-Plastics Technology and Engineering, 2016, 55, 542-551.	1.9	8
31	Studies on graphene oxideâ€“reinforced polybenzoxazine nanocomposites. High Performance Polymers, 2016, 28, 425-435.	1.8	11
32	Bio-based silica-reinforced caprolactam-toughened epoxy nanocomposites. High Performance Polymers, 2016, 28, 189-197.	1.8	11
33	Mullite-reinforced caprolactam-toughened DGEBA epoxy nanocomposites. High Performance Polymers, 2015, 27, 833-841.	1.8	3
34	Exploring the high k dielectric behavior of bio-carbon reinforced cyanate ester nanocomposites. New Journal of Chemistry, 2015, 39, 8739-8751.	2.8	6
35	Synthesis of soluble polyimides based on ether-linked cyclohexyldiamine and their ultraviolet shielding behavior. High Performance Polymers, 2015, 27, 247-253.	1.8	17
36	Studies on Polybenzoxazine/Capron PK₄/octakis(dimethylsiloxypropylglycidylether) Silsesquioxane Nanocomposites for Radiation Resistant Applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 651-656.	3.4	9

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37	Vinyl silane-functionalized rice husk ash-reinforced unsaturated polyester nanocomposites. RSC Advances, 2014, 4, 18157-18163.	3.6	31
38	Flexible-capron toughened epoxy/graphene nanocomposites for high k dielectric and ultraviolet radiation-resistant applications. RSC Advances, 2014, 4, 30485.	3.6	10
39	Development of bio-based F-SBA-15 reinforced epoxy nanocomposites for low-k dielectric applications. High Performance Polymers, 2014, 26, 283-289.	1.8	19
40	Development and characterization of surface-modified mullite reinforced BMI-toughened epoxy nanocomposites. Polymer Bulletin, 2014, 71, 1277-1293.	3.3	9
41	Thermo-mechanical and surface properties of POSS reinforced structurally different diamine cured epoxy nanocomposites. RSC Advances, 2014, 4, 45433-45441.	3.6	30
42	MnO₂-doped, polyaniline-grafted rice husk ash nanocomposites and their electrochemical capacitor applications. RSC Advances, 2014, 4, 47726-47734.	3.6	26
43	Thermal and mechanical properties of functionalized mullite reinforced unsaturated polyester composites. Polymer Composites, 2014, 35, 1663-1670.	4.6	10
44	High dielectric multiwalled carbon nanotube-polybenzoxazine nanocomposites for printed circuit board applications. Applied Physics Letters, 2013, 103, .	3.3	37
45	Low dielectric and low surface free energy flexible linear aliphatic alkoxy core bridged bisphenol cyanate ester based POSS nanocomposites. Frontiers in Chemistry, 2013, 1, 19.	3.6	22