

Rong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,051
citations

623734

14
h-index

501196

28
g-index

30
all docs

30
docs citations

30
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Different Dye Baths and Dye-Structures on the Performance of Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11023-11033.	3.1	432
2	Highly flexible strain sensors based on polydimethylsiloxane/carbon nanotubes (CNTs) prepared by a swelling/permeating method and enhanced sensitivity by CNTs surface modification. <i>Composites Science and Technology</i> , 2019, 171, 218-225.	7.8	62
3	Designing high electrochemical surface area between polyaniline and hydrogel polymer electrolyte for flexible supercapacitors. <i>Applied Surface Science</i> , 2020, 507, 145135.	6.1	60
4	Poly(2,5-benzimidazole)/sulfonated sepiolite composite membranes with low phosphoric acid doping levels for PEMFC applications in a wide temperature range. <i>Journal of Membrane Science</i> , 2019, 574, 282-298.	8.2	57
5	Design of sepiolite-supported ionogel-embedded composite membranes without proton carrier wastage for wide-temperature-range operation of proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15288-15301.	10.3	54
6	Study on filler content dependence of the onset of positive temperature coefficient (PTC) effect of electrical resistivity for UHMWPE/LDPE/CF composites based on their DC and AC electrical behaviors. <i>Polymer</i> , 2014, 55, 2103-2112.	3.8	35
7	Synergetic effects of carbon nanotubes and carbon fibers on electrical and self-heating properties of high-density polyethylene composites. <i>Journal of Materials Science</i> , 2015, 50, 1565-1574.	3.7	35
8	Facile one-step preparation of laminated PDMS based flexible strain sensors with high conductivity and sensitivity via filler sedimentation. <i>Composites Science and Technology</i> , 2020, 186, 107933.	7.8	33
9	Polyaniline Nanorod Arrays as a Cathode Material for High-Rate Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 12360-12367.	5.1	32
10	Positive temperature coefficient effect of polymer-carbon filler composites under self-heating evaluated quantitatively in terms of potential barrier height and width associated with tunnel current. <i>Polymer</i> , 2012, 53, 5197-5207.	3.8	29
11	Magnetic Behaviors of Mg- and Zn-Doped Fe ₃ O ₄ Nanoparticles Estimated in Terms of Crystal Domain Size, Dielectric Response, and Application of Fe ₃ O ₄ /Carbon Nanotube Composites to Anodes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26128-26142.	3.1	29
12	Evaluation by tunneling effect for the temperature-dependent electric conductivity of polymer-carbon fiber composites with visco-elastic properties. <i>Polymer Journal</i> , 2013, 45, 1120-1134.	2.7	26
13	Bioinspired design of flexible strain sensor with high performance based on gradient filler distributions. <i>Composites Science and Technology</i> , 2020, 200, 108319.	7.8	18
14	Homogeneously dispersed composites of hydroxyapatite nanorods and poly(lactic acid) and their mechanical properties and crystallization behavior. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105841.	7.6	18
15	Hydrophilic PDMS with a sandwich-like structure and no loss of mechanical properties and optical transparency. <i>Applied Surface Science</i> , 2020, 503, 144126.	6.1	14
16	Effect of $\hat{\gamma}$ -ray irradiation on the microstructure and self-heating property of carbon fiber/polyethylene composite films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 174-180.	7.6	13
17	Preparation and properties of flexible conductive polydimethylsiloxane composites containing hybrid fillers. <i>Polymer Bulletin</i> , 2019, 76, 6487-6501.	3.3	13
18	Reticulated polyaniline nanowires as a cathode microporous layer for high-temperature PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8802-8809.	7.1	12

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19	Polyethyleneimine-filled sepiolite nanorods-embedded poly(2,5-benzimidazole) composite membranes for wide-temperature PEMFCs. <i>Journal of Cleaner Production</i> , 2022, 359, 131977.	9.3	12
20	Improved cell morphology and thermal properties of expanded polypropylene beads by the addition of PP with a high melting point. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45121.	2.6	11
21	Preparation of CNTs/PP@Gr composites with a segregated structure and enhanced electrical and thermal conductive properties by the Pickering emulsion method. <i>Composites Science and Technology</i> , 2022, 222, 109374.	7.8	11
22	Improved electrical heating properties for polymer nanocomposites by electron beam irradiation. <i>Polymer Bulletin</i> , 2018, 75, 2847-2863.	3.3	10
23	Polypyrrole nanowires as a cathode microporous layer for direct methanol fuel cell to enhance oxygen transport. <i>International Journal of Energy Research</i> , 2021, 45, 3375-3384.	4.5	9
24	Considerable Different Frequency Dependence of Dynamic Tensile Modulus between Self-Heating (Joule Heat) and External Heating for Polymer-Nickel-Coated Carbon Fiber Composites. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7047-7058.	2.6	7
25	Enhanced electrical properties of graphite/ABS composites prepared via supercritical CO ₂ processing. <i>Polymer Bulletin</i> , 2017, 74, 4279-4295.	3.3	6
26	In situ synthesis of star copolymers consisting of a polyhedral oligomeric silsesquioxane core and poly(2,5-benzimidazole) arms for high-temperature proton exchange membrane fuel cells. <i>International Journal of Energy Research</i> , 2020, 44, 8769-8780.	4.5	6
27	The tunable sensing behaviors of flexible conductive PDMS/NCG composites via regulation of filler size prepared by a facile sedimentation method. <i>Composites Science and Technology</i> , 2021, 216, 109037.	7.8	4
28	Enhanced Specific Capacitance and Stability of Polyaniline by Nafion Doping. <i>ChemElectroChem</i> , 2022, 9, .	3.4	2
29	Improved Sensitivity of Flexible Conductive Composites Throughout the Working Strain Range Based on Bioinspired Strain Redistribution. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1608-1616.	4.4	1
30	Preparation and characterization of ABPBI/POSS nanocomposites for PEMFCs. , 2016, , .		0