

Tuo Ji

List of Publications by Year in descending order

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45
papers

1,907
citations

218677

26
h-index

254184

43
g-index

45
all docs

45
docs citations

45
times ranked

2548
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale-up of immobilized amine sorbent pellets for landfill gas upgrading, using benchtop and pilot equipment. Powder Technology, 2022, 395, 243-254.	4.2	3
2	Microwave-accelerated regeneration of a non-aqueous slurry for energy-efficient carbon sequestration. Materials Today Sustainability, 2022, 19, 100168.	4.1	5
3	Porous Metallosalen Hypercrosslinked Ionic Polymers for Cooperative CO ₂ Cycloaddition Conversion. Industrial & Engineering Chemistry Research, 2020, 59, 676-684.	3.7	34
4	Holistically Engineered Polymer-Polymer-Ion Interactions in Biocompatible Polyvinyl Alcohol Blends for High-Performance Triboelectric Devices in Self-Powered Wearable Cardiovascular Monitorings. Advanced Materials, 2020, 32, e2002878.	21.0	66
5	Microwave-Responsive Nanomaterials for Catalysis. Springer Series in Materials Science, 2020, , 65-91.	0.6	2
6	Steam-Stable Basic Immobilized Amine Sorbent Pellets for CO ₂ Capture Under Practical Conditions. ACS Applied Materials & Interfaces, 2019, 11, 38336-38346.	8.0	11
7	Structural strategies to design bio-ionic liquid: Tuning molecular interaction with lignin for enhanced lubrication. Journal of Molecular Liquids, 2019, 280, 49-57.	4.9	12
8	Niobium-doped TiO ₂ solid acid catalysts: Strengthened interfacial polarization, amplified microwave heating and enhanced energy efficiency of hydroxymethylfurfural production. Applied Catalysis B: Environmental, 2019, 243, 741-749.	20.2	34
9	Thermal Conduction in Polymer Composites. , 2019, , 77-110.		7
10	The stiffness-thermal conduction relationship at the composite interface: the effect of particle alignment on the long-range confinement of polymer chains monitored by scanning thermal microscopy. Nanoscale, 2018, 10, 1695-1703.	5.6	56
11	Effect of interface on the mechanical behavior of polybutadiene-silica composites: An experimental and simulation study. Journal of Applied Polymer Science, 2018, 135, 46089.	2.6	9
12	Localizing microwave heat by surface polarization of titanate nanostructures for enhanced catalytic reaction efficiency. Applied Catalysis B: Environmental, 2018, 227, 266-275.	20.2	21
13	Thermal transport in polymeric materials and across composite interfaces. Applied Materials Today, 2018, 12, 92-130.	4.3	299
14	Structurally tuning microwave absorption of core/shell structured CNT/polyaniline catalysts for energy efficient saccharide-HMF conversion. Applied Catalysis B: Environmental, 2018, 220, 581-588.	20.2	50
15	Coupled Chemical and Thermal Drivers in Microwaves toward Ultrafast HMF Oxidation to FDCA. ACS Sustainable Chemistry and Engineering, 2018, 6, 11493-11501.	6.7	41
16	Realizing the nanoscale quantitative thermal mapping of scanning thermal microscopy by resilient tip-surface contact resistance models. Nanoscale Horizons, 2018, 3, 505-516.	8.0	21
17	Organosilane grafted silica: Quantitative correlation of microscopic surface characters and macroscopic surface properties. Applied Surface Science, 2017, 399, 565-572.	6.1	25
18	Molecular Origin of Efficient Phonon Transfer in Modulated Polymer Blends: Effect of Hydrogen Bonding on Polymer Coil Size and Assembled Microstructure. Journal of Physical Chemistry C, 2017, 121, 14204-14212.	3.1	53

#	ARTICLE	IF	CITATIONS
19	Enhancing Energy Efficiency in Saccharideâ€“HMF Conversion with Core/shell Structured Microwave Responsive Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4352-4358.	6.7	32
20	Grafting heteroelement-rich groups on graphene oxide: Tuning polarity and molecular interaction with bio-ionic liquid for enhanced lubrication. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 47-54.	9.4	19
21	Pore size dependent molecular adsorption of cationic dye in biomass derived hierarchically porous carbon. <i>Journal of Environmental Management</i> , 2017, 196, 168-177.	7.8	29
22	Expedited Phonon Transfer in Interfacially Constrained Polymer Chain along Self-Organized Amino Acid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12138-12145.	8.0	49
23	Molecular insight into the Mullins effect: irreversible disentanglement of polymer chains revealed by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19468-19477.	2.8	41
24	Moisture driven thermal conduction in polymer and polymer blends. <i>Composites Science and Technology</i> , 2017, 151, 115-123.	7.8	44
25	Cotton fabric derived hierarchically porous carbon and nitrogen doping for sustainable capacitor electrode. <i>Carbon</i> , 2017, 111, 839-848.	10.3	140
26	The effect of H ₂ O ₂ desorption on achieving improved selectivity for direct synthesis of H ₂ O ₂ over TiO ₂ (B)/anatase supported Pd catalyst. <i>Catalysis Communications</i> , 2017, 89, 69-72.	3.3	14
27	Effect of Fillerâ€“Polymer Interface on Elastic Properties of Polymer Nanocomposites: A Molecular Dynamics Study. <i>Tire Science and Technology</i> , 2017, 45, 227-241.	0.4	4
28	Paving the Thermal Highway with Self-Organized Nanocrystals in Transparent Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29080-29087.	8.0	35
29	Boosting Energy Efficiency of Nickel Cobaltite via Interfacial Engineering in Hierarchical Supercapacitor Electrode. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23377-23388.	3.1	14
30	Molecular Transformation, Diffusion, and Assembling into Three-Dimensional Freestanding Tube Arrays via a Triphasic Reaction. <i>Langmuir</i> , 2016, 32, 11525-11531.	3.5	0
31	Enriching Heteroelements in Lignin as Lubricating Additives for Bioionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3877-3887.	6.7	36
32	Confined molecular motion across liquid/liquid interfaces in a triphasic reaction towards free-standing conductive polymer tube arrays. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6290-6294.	10.3	7
33	Green processing of plant biomass into mesoporous carbon as catalyst support. <i>Chemical Engineering Journal</i> , 2016, 295, 301-308.	12.7	55
34	Superamphiphobicity and electroactivity enabled dual physical/chemical protections in novel anticorrosive nanocomposite coatings. <i>Polymer</i> , 2016, 85, 37-46.	3.8	46
35	Ionic Grease Lubricants: Protic [Triethanolamine][Oleic Acid] and Aprotic [Choline][Oleic Acid]. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4977-4984.	8.0	45
36	Heterogeneous nucleation/growth of silver nanoparticles onto oxygenated mesoporous carbon: Alcohol effect and catalytic property. <i>Catalysis Communications</i> , 2016, 77, 65-69.	3.3	8

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37	Facile synthesis of mesoporous carbon nanocomposites from natural biomass for efficient dye adsorption and selective heavy metal removal. <i>RSC Advances</i> , 2016, 6, 2259-2269.	3.6	74
38	In-situ reduction of Ag nanoparticles on oxygenated mesoporous carbon fabric: Exceptional catalyst for nitroaromatics reduction. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 306-315.	20.2	68
39	Hierarchical Porous and High Surface Area Tubular Carbon as Dye Adsorbent and Capacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12230-12237.	8.0	106
40	Hierarchical macrotube/mesopore carbon decorated with mono-dispersed Ag nanoparticles as a highly active catalyst. <i>Green Chemistry</i> , 2015, 17, 2515-2523.	9.0	114
41	[N-Methyl-2-pyrrolidone][C1-C4 carboxylic acid]: a novel solvent system with exceptional lignin solubility. <i>Chemical Communications</i> , 2015, 51, 13554-13557.	4.1	36
42	Non-corrosive green lubricants: strengthened lignin-choline amino acid ionic liquids interaction via reciprocal hydrogen bonding. <i>RSC Advances</i> , 2015, 5, 66067-66072.	3.6	68
43	Superhydrophobic polyaniline hollow spheres with mesoporous brain-like convex-fold shell textures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19299-19303.	10.3	28
44	Unveiling Mesopore Evolution in Carbonized Wood: Interfacial Separation, Migration, and Degradation of Lignin Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2489-2495.	6.7	21
45	Carbon-protected Au nanoparticles supported on mesoporous TiO ₂ for catalytic reduction of p-nitrophenol. <i>RSC Advances</i> , 2014, 4, 29591-29594.	3.6	25