Yi-Feng Lin

List of Publications by Year
in descending order

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41 papers	1,146 citations	279798 23 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	1586 citing authors

#	Article	IF	Citations
1	Large enhancement in photon detection sensitivity via Schottky-gated CdS nanowire nanosensors. Applied Physics Letters, 2010, 96, .	3.3	123
2	Electrospun magnetic cobalt-embedded carbon nanofiber as a heterogeneous catalyst for activation of oxone for degradation of Amaranth dye. Journal of Colloid and Interface Science, 2017, 505, 728-735.	9.4	57
3	Reusable fluorocarbon-modified electrospun PDMS/PVDF nanofibrous membranes with excellent CO 2 absorption performance. Chemical Engineering Journal, 2016, 284, 888-895.	12.7	53
4	Mesoporous Fluorocarbonâ€Modified Silica Aerogel Membranes Enabling Longâ€Term Continuous CO₂ Capture with Large Absorption Flux Enhancements. ChemSusChem, 2013, 6, 437-442.	6.8	52
5	Solâ€“gel preparation of polymethylsilsesquioxane aerogel membranes for CO2 absorption fluxes in membrane contactors. Applied Energy, 2014, 129, 25-31.	10.1	49
6	Magnetic mesoporous Fe/carbon aerogel structures with enhanced arsenic removal efficiency. Journal of Colloid and Interface Science, 2014, 420, 74-79.	9.4	46
7	Mesoporous bis(trimethoxysilyl)hexane (BTMSH)/tetraethyl orthosilicate (TEOS)-based hybrid silica aerogel membranes for CO2 capture. Chemical Engineering Journal, 2016, 300, 29-35.	12.7	42
8	Bifunctional ZIF-78 heterogeneous catalyst with dual Lewis acidic and basic sites for carbon dioxide fixation via cyclic carbonate synthesis. Journal of CO2 Utilization, 2017, 22, 178-183.	6.8	41
9	Hydrophobic fluorocarbon-modified silica aerogel tubular membranes with excellent CO2 recovery ability in membrane contactors. Applied Energy, 2015, 154, 21-25.	10.1	40
10	Optical, thermal, mechanical properties, and nonâ€isothermal degradation kinetic studies on PVA/CuO nanocomposites. Polymer Composites, 2019, 40, 3737-3748.	4.6	39
11	Environmentally sustainable, fluorine-free and waterproof breathable PDMS/PS nanofibrous membranes for carbon dioxide capture. Journal of Materials Chemistry A, 2018, 6, 9489-9497.	10.3	36
12	Magnetic mesoporous iron oxide/carbon aerogel photocatalysts with adsorption ability for organic dye removal. RSC Advances, 2014, 4, 28628.	3.6	34
13	Enhancing the Water Resistance and Stability of CsPbBr₃ Perovskite Quantum Dots for Light-Emitting-Diode Applications through Encapsulation in Waterproof Polymethylsilsesquioxane Aerogels. ACS Applied Materials & Interfaces, 2020, 12, 58049-58059.	8.0	34
14	Reusable methyltrimethoxysilane-based mesoporous water-repellent silica aerogel membranes for CO₂capture. RSC Advances, 2014, 4, 1456-1459.	3.6	31
15	Decoration of SrTiO3 nanofibers by BiOI for photocatalytic methyl orange degradation under visible light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 264-272.	5.3	31
16	Solvent-resistant CTAB-modified polymethylsilsesquioxane aerogels for organic solvent and oil adsorption. Journal of Colloid and Interface Science, 2017, 485, 152-158.	9.4	30
17	Synthesis of mesoporous maghemite (Î³-Fe2O3) nanostructures with enhanced arsenic removal efficiency. RSC Advances, 2013, 3, 15344.	3.6	29
18	A Pt-free pristine monolithic carbon aerogel counter electrode for dye-sensitized solar cells: up to 20% under dim light illumination. Nanoscale, 2019, 11, 12507-12516.	5.6	29

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19	Prussian Blue analogue supported on sulfur-doped carbon nitride as an enhanced heterogeneous catalyst for activating peroxymonosulfate. Journal of Colloid and Interface Science, 2018, 529, 161-170.	9.4	28
20	Molecular modelling of polyimides with intrinsic microporosity: from structural characteristics to transport behaviour. RSC Advances, 2013, 3, 10403.	3.6	27
21	The synthesis of Lewis acid ZrO2 nanoparticles and their applications in phospholipid adsorption from Jatropha oil used for biofuel. Journal of Colloid and Interface Science, 2012, 368, 660-662.	9.4	26
22	Mesoporous carbon aerogel membrane for phospholipid removal from Jatropha curcas oil. Separation and Purification Technology, 2013, 109, 129-134.	7.9	25
23	Fluorine-free and hydrophobic/oleophilic PMMA/PDMS electrospun nanofibrous membranes for gravity-driven removal of water from oil-rich emulsions. Separation and Purification Technology, 2021, 279, 119720.	7.9	24
24	Heterostructural design of I-deficient BiOI for photocatalytic decoloration and catalytic CO2 conversion. Catalysis Science and Technology, 2019, 9, 3800-3811.	4.1	21
25	Growth of zirconia and yttria-stabilized zirconia nanorod arrays assisted by phase transition. CrystEngComm, 2010, 12, 3664.	2.6	20
26	Polyvinylidene Fluoride/Siloxane Nanofibrous Membranes for Longâ€Term Continuous CO₂â€Capture with Large Absorptionâ€Flux Enhancement. ChemSusChem, 2014, 7, 604-609.	6.8	20
27	Boosting photoassisted activity for catalytic oxidation of benzoic acid and reduction of 4-nitrophenol with Ag-supported Fe3O4 aerogel. Chemical Engineering Journal, 2021, 405, 126641.	12.7	20
28	Microporous 3D aluminum MOF doped into chitosanâ€based mixed matrix membranes for ethanol/water separation. Journal of the Chinese Chemical Society, 2019, 66, 1165-1171.	1.4	19
29	DEM simulation of a 3D vertical vibratory screening process: The study of a simulated wovenâ€mesh structure. AICHE Journal, 2011, 57, 918-928.	3.6	18
30	Synthesis of a ZrO₂/carbon aerogel composite with tetragonal ZrO₂structures assisted by the formation of phenol formaldehyde resin. CrystEngComm, 2015, 17, 678-685.	2.6	17
31	Synergistic effect of PANIâ€“ZrO₂ composite as antibacterial, anti-corrosion, and phosphate adsorbent material: synthesis, characterization and applications. Environmental Technology (United Kingdom), 2019, 40, 226-238.	2.2	17
32	H2S-Sensing Studies Using Interdigitated Electrode with Spin-Coated Carbon Aerogel-Polyaniline Composites. Polymers, 2021, 13, 1457.	4.5	15
33	Detection of hydrogen sulfide using polyaniline incorporated with graphene oxide aerogel. Synthetic Metals, 2021, 282, 116934.	3.9	15
34	Hydrothermal synthesis of Lewis acid Y2O3 cubes and flowers for the removal of phospholipids from soybean oil. CrystEngComm, 2013, 15, 6506.	2.6	8
35	Structural modification of aminoclay for catalytic applications. Chemical Engineering Communications, 2020, 207, 871-886.	2.6	7
36	Structural, microstructural, electrical, thermal and non-isothermal degradation kinetic studies on technologically important poly(aniline)/CdO nanocomposites. Journal of Sol-Gel Science and Technology, 2019, 91, 611-623.	2.4	6

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37	Insight into the roles of ethylenediamine and hydrazine for the synthesis of ZnO micro/nanostructures using solvothermal process. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	4
38	Prussian blue analogues as heterogeneous catalysts for hydrogen generation from hydrolysis of sodium borohydride: a comparative study. Chemical Papers, 2021, 75, 779-788.	2.2	4
39	Fluid flow through compressible soft particle beds. AICHE Journal, 2016, 62, 1716-1727.	3.6	3
40	Ag-Deposited Electrospun SrTiO3 Nanofiber with Enhanced Photocatalytic Activity for Degradation of Methylene Orange. Journal of Nanoscience and Nanotechnology, 2018, 18, 445-450.	0.9	3
41	The roles of metal species supported on Fe₃O₄ aerogel for photoassisted 4-nitrophenol reduction and benzoic acid oxidation. Catalysis Science and Technology, 2021, 11, 3447-3455.	4.1	3