

Xinsheng Peng

List of Publications by Year in descending order

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123
docs citations

123
times ranked

9850
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes decorated hollow metal-organic frameworks for efficient solar-driven atmospheric water harvesting. Chemical Engineering Journal, 2022, 430, 133086.	12.7	37
2	Orientational seawater transportation through Cu(TCNQ) nanorod arrays for efficient solar desalination and salt production. Desalination, 2022, 522, 115399.	8.2	18
3	Stable Two-dimensional Nanoconfined Ionic Liquids with Highly Efficient Ionic Conductivity. Small, 2022, 18, e2108026.	10.0	18
4	Graphene oxide constructed nano Newton's cradle for ultrafast and highly selective CO ₂ transport. Journal of Membrane Science, 2022, 652, 120475.	8.2	11
5	Enhanced molecular transport in two-dimensional nanoconfined ionic liquids. Applied Materials Today, 2022, 27, 101458.	4.3	3
6	Photothermal-driven interfacial-polymerized ultrathin polyamide selective layer for nanofiltration. Chemical Engineering Journal, 2022, 440, 136012.	12.7	12
7	Ferrocene Dicarboxylic Acid Ligand-Exchanged Hollow MIL-101(Cr) Nanospheres for Solar-Driven Atmospheric Water Harvesting. ACS Sustainable Chemistry and Engineering, 2022, 10, 6446-6455.	6.7	22
8	Photothermal responsive ultrathin Cu-TCPP nanosheets/sulfonated polystyrene nanocomposite photo-switch proton conducting membranes. Journal of Membrane Science, 2021, 620, 118888.	8.2	20
9	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO ₂ separation. Chemical Engineering Journal, 2021, 405, 126961.	12.7	56
10	Efficiently cogenerating drinkable water and electricity from seawater via flexible MOF nanorod arrays. Journal of Materials Chemistry A, 2021, 9, 9048-9055.	10.3	52
11	Charge separation in hybrid metal-organic framework films for enhanced catalytic CO ₂ conversion. Journal of Materials Chemistry A, 2021, 9, 2694-2699.	10.3	20
12	Polyaniline-Coated MOFs Nanorod Arrays for Efficient Evaporation-Driven Electricity Generation and Solar Steam Desalination. Advanced Science, 2021, 8, 2004552.	11.2	95
13	Photogated proton conductivity of ZIF-8 membranes co-modified with graphene quantum dots and polystyrene sulfonate. Science China Materials, 2021, 64, 1997-2007.	6.3	10
14	Near-Infrared-Light emitting diode driven white light Emission: Upconversion nanoparticles decorated Metal-Organic Frameworks thin film. Chemical Engineering Journal, 2021, 409, 128220.	12.7	14
15	2D Zr-Fc metal-organic frameworks with highly efficient anchoring and catalytic conversion ability towards polysulfides for advanced Li-S battery. Energy Storage Materials, 2021, 36, 466-477.	18.0	90
16	CaCl ₂ Nanocrystals decorated photothermal Fe-ferrocene MOFs hollow microspheres for atmospheric water harvesting. Applied Materials Today, 2021, 23, 101076.	4.3	15
17	Cu-TCPP nanosheets blended polysulfone ultrafiltration membranes with enhanced antifouling and photo-tunable porosity. Separation and Purification Technology, 2021, 268, 118688.	7.9	24
18	NH ₂ -UiO-66 Metal-Organic Framework Nanoparticles for Hydroxide Ion Conductive Photoswitches. ACS Applied Nano Materials, 2021, 4, 8352-8359.	5.0	12

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19	Bio-inspired ferromagnetic graphene oxide/magnetic ionic liquid membrane for highly efficient CO ₂ separation. <i>Applied Materials Today</i> , 2021, 24, 101164.	4.3	3
20	Keggin-type polyoxometalates molecularly loaded in Zr-ferrocene metal organic framework nanosheets for solar-driven CO ₂ cycloaddition. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120329.	20.2	52
21	Accelerating CO ₂ transport through nanoconfined magnetic ionic liquid in laminated BN membrane. <i>Chemical Engineering Journal</i> , 2021, 423, 130309.	12.7	24
22	Ultra-fast photothermal-responsive Fe-TCPP-based thin-film nanocomposite membranes for ON/OFF switchable nanofiltration. <i>Separation and Purification Technology</i> , 2021, 278, 119528.	7.9	12
23	A unique photoswitch: intrinsic photothermal heating induced reversible proton conductivity of a HKUST-1 membrane. <i>Dalton Transactions</i> , 2021, 50, 2731-2735.	3.3	12
24	Superhydrophilic and Photothermal Fe-TCPP Nanofibrous Membrane for Efficient Oil-in-Water Nanoemulsion Separation. <i>Langmuir</i> , 2021, 37, 12981-12989.	3.5	13
25	A robust asymmetric porous SWCNT/Gelatin thin membrane with salt-resistant for efficient solar vapor generation. <i>Applied Materials Today</i> , 2020, 18, 100459.	4.3	24
26	Graphene oxide nanoslit-confined AgBF ₄ /ionic liquid for efficiently separating olefin from paraffin. <i>Nanotechnology</i> , 2020, 31, 085703.	2.6	11
27	Blue metal-organic framework encapsulated denatured R-phycoerythrin proteins for a white-light-emitting thin film. <i>Journal of Materials Chemistry C</i> , 2020, 8, 240-246.	5.5	28
28	Molecular-confinement synthesis of sub-nano Fe/N/C catalysts with high oxygen reduction reaction activity and excellent durability for rechargeable Zn-Air batteries. <i>Journal of Power Sources</i> , 2020, 450, 227660.	7.8	27
29	A photothermal and Fenton active MOF-based membrane for high-efficiency solar water evaporation and clean water production. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22728-22735.	10.3	64
30	A self-confinement synthesis of a POM-decorated MOF thin film for actively hydrolyzing ethyl acetate. <i>Chemical Communications</i> , 2020, 56, 13840-13843.	4.1	12
31	Ag-DNA@ZIF-8 membrane: A proton conductive photoswitch. <i>Applied Materials Today</i> , 2020, 20, 100761.	4.3	8
32	Photothermal-Responsive Microporous Nanosheets Confined Ionic Liquid for Efficient CO ₂ Separation. <i>Small</i> , 2020, 16, e2002699.	10.0	33
33	Light-gated cation-selective transport in metal-organic framework membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11399-11405.	10.3	54
34	Fe ₃ Pt intermetallic nanoparticles anchored on N-doped mesoporous carbon for the highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2020, 56, 4898-4901.	4.1	17
35	Au ₃ Cu nanosquares and frames for glucose sensor and CO oxidation catalyst. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	2
36	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. <i>Angewandte Chemie</i> , 2020, 132, 7806-7811.	2.0	7

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37	Facilitate Gas Transport through Metal-Organic Polyhedra Constructed Porous Liquid Membrane. Small, 2020, 16, e1907016.	10.0	52
38	Co-Ferrocene MOF/Glucose Oxidase as Cascade Nanozyme for Effective Tumor Therapy. Advanced Functional Materials, 2020, 30, 1910085.	14.9	283
39	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. Angewandte Chemie - International Edition, 2020, 59, 7732-7737.	13.8	96
40	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. ChemCatChem, 2020, 12, 3870-3879.	3.7	34
41	One Stone Two Birds: Zr-Fc Metal-Organic Framework Nanosheet for Synergistic Photothermal and Chemodynamic Cancer Therapy. ACS Applied Materials & Interfaces, 2020, 12, 20321-20330.	8.0	105
42	Rational design of a Fe/S/N/C catalyst from ZIF-8 for efficient oxygen reduction reaction. Nanotechnology, 2020, 31, 475404.	2.6	9
43	Nitrogen-doped porous carbon sponge-confined ZnO quantum dots for metal collector-free lithium ion battery. Journal of Electroanalytical Chemistry, 2019, 848, 113275.	3.8	10
44	Carbon nanofiber stringed hierarchical porous carbon polyhedrons flexible thin films for solar vapor generation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	11
45	CO ₂ -philic Separation Membrane: Deep Eutectic Solvent Filled Graphene Oxide Nanoslits. Small, 2019, 15, e1904145.	10.0	53
46	Sulfonated Sub-Nanochannels in a Robust MOF Membrane: Harvesting Salinity Gradient Power. ACS Applied Materials & Interfaces, 2019, 11, 35496-35500.	8.0	26
47	Simultaneous Recovery of Metal Ions and Electricity Harvesting via K-Carrageenan@ZIF-8 Membrane. ACS Applied Materials & Interfaces, 2019, 11, 34039-34045.	8.0	23
48	Laminated mica nanosheets supported ionic liquid membrane for CO ₂ separation. Nanotechnology, 2019, 30, 385705.	2.6	25
49	Selectively tuning gas transport through ionic liquid filled graphene oxide nanoslits using an electric field. Journal of Materials Chemistry A, 2019, 7, 15062-15067.	10.3	48
50	Highly conductive and transparent metal-organic frameworks thin film. Science China Materials, 2019, 62, 1350-1356.	6.3	7
51	R-phycoerythrin proteins@ZIF-8 composite thin films for mercury ion detection. Analyst, The, 2019, 144, 3892-3897.	3.5	11
52	Ferrocenyl metal-organic framework hollow microspheres for in situ loading palladium nanoparticles as a heterogeneous catalyst. Dalton Transactions, 2019, 48, 8995-9003.	3.3	23
53	Electrical field facilitates selective transport of CO ₂ through a laminated MoS ₂ supported ionic liquid membrane. Journal of Materials Chemistry A, 2019, 7, 10041-10046.	10.3	40
54	Hierarchical Porous SWCNT Stringed Carbon Polyhedrons and PSS Threaded MOF Bilayer Membrane for Efficient Solar Vapor Generation. Small, 2019, 15, e1900354.	10.0	89

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55	Dual emission from nanoconfined R-phycoerythrin fluorescent proteins for white light emission diodes. RSC Advances, 2019, 9, 9777-9782.	3.6	16
56	Ferrocenecarboxylic acid: a functional modulator for UiO-66 synthesis and incorporation of Pd nanoparticles. CrystEngComm, 2019, 21, 1772-1779.	2.6	15
57	Porous cellulose nanofiber stringed HKUST-1 polyhedron membrane for air purification. Applied Materials Today, 2019, 14, 96-101.	4.3	61
58	Mass transport through metal organic framework membranes. Science China Materials, 2019, 62, 25-42.	6.3	40
59	Cross-flow-assembled ultrathin and robust graphene oxide membranes for efficient molecule separation. Nanotechnology, 2018, 29, 155602.	2.6	10
60	Polyamide membranes with nanoscale Turing structures for water purification. Science, 2018, 360, 518-521.	12.6	996
61	A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. Advanced Materials, 2018, 30, 1705155.	21.0	142
62	Highly conductive PEDOT:PSS threaded HKUST-1 thin films. Chemical Communications, 2018, 54, 13865-13868.	4.1	28
63	Phase-Dependent Fluorescence Quenching Efficiency of MoS ₂ Nanosheets and Their Applications in Multiplex Target Biosensing. ACS Applied Materials & Interfaces, 2018, 10, 42009-42017.	8.0	68
64	Zwitterion threaded metal-organic framework membranes for direct methanol fuel cells. Journal of Materials Chemistry A, 2018, 6, 19547-19554.	10.3	32
65	Blocking Polysulfides and Facilitating Lithium-Ion Transport: Polystyrene Sulfonate@HKUST-1 Membrane for Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 30451-30459.	8.0	69
66	CO ₂ -philic WS ₂ laminated membranes with a nanoconfined ionic liquid. Journal of Materials Chemistry A, 2018, 6, 16566-16573.	10.3	39
67	Ionic Liquid Selectively Facilitates CO ₂ Transport through Graphene Oxide Membrane. ACS Nano, 2018, 12, 5385-5393.	14.6	161
68	Foldable interpenetrated metal-organic frameworks/carbon nanotubes thin film for lithium-sulfur batteries. Nature Communications, 2017, 8, 14628.	12.8	436
69	Recent advances of nanomaterial-based membrane for water purification. Applied Materials Today, 2017, 7, 144-158.	4.3	154
70	CNT-threaded N-doped porous carbon film as binder-free electrode for high-capacity supercapacitor and Li-S battery. Journal of Materials Chemistry A, 2017, 5, 9775-9784.	10.3	115
71	Robust GQDs Modified Thermally Reduced Graphene Oxide Membranes for Ultrafast and Long-Term Purification of Dye-Wasted Water. Advanced Materials Interfaces, 2017, 4, 1700209.	3.7	33
72	Flexible and Binder-Free Hierarchical Porous Carbon Film for Supercapacitor Electrodes Derived from MOFs/CNT. ACS Applied Materials & Interfaces, 2017, 9, 14043-14050.	8.0	167

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73	Solid Confinement of Quantum Dots in ZIF-8 for Efficient and Stable Color-Conversion White LEDs. ChemSusChem, 2017, 10, 1346-1350.	6.8	18
74	Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. Angewandte Chemie, 2017, 129, 6272-6276.	2.0	37
75	Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2017, 56, 6176-6180.	13.8	153
76	Hydrophobic and porous cellulose nanofibrous screen for efficient particulate matter (PM2.5) blocking. Journal Physics D: Applied Physics, 2017, 50, 405304.	2.8	7
77	Enhanced Gas Separation through Nanoconfined Ionic Liquid in Laminated MoS ₂ Membrane. ACS Applied Materials & Interfaces, 2017, 9, 44251-44257.	8.0	77
78	Mechanical enhancement of a nanoconfined-electrodeposited nacre-like Cu ₂ O layered crystal/graphene oxide nanosheet composite thin film. RSC Advances, 2016, 6, 94845-94850.	3.6	6
79	Self-confined synthesis of HKUST-1 membranes from CuO nanosheets at room temperature. ChemistrySelect, 2016, 1, 108-113.	1.5	18
80	High aspect ratio tungsten grating on ultrathin Si membranes for extreme UV lithography. Nanotechnology, 2016, 27, 352501.	2.6	0
81	ZIF-8 coated polyvinylidene fluoride (PVDF) hollow fiber for highly efficient separation of small dye molecules. Applied Materials Today, 2016, 5, 103-110.	4.3	48
82	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. Angewandte Chemie, 2016, 128, 15344-15348.	2.0	78
83	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. Angewandte Chemie - International Edition, 2016, 55, 15120-15124.	13.8	272
84	Fe ₃ O ₄ nanoparticle anchored layered graphene films for high performance lithium storage. New Journal of Chemistry, 2016, 40, 2649-2654.	2.8	20
85	Hierarchical Mesoporous Metal-Organic Frameworks for Enhanced CO ₂ Capture. Chemistry - A European Journal, 2015, 21, 15127-15132.	3.3	59
86	Porous reduced graphene oxide paper as a binder-free electrode for high-performance supercapacitors. RSC Advances, 2015, 5, 27175-27180.	3.6	10
87	Room temperature synthesis of ZIF-8 membranes from seeds anchored in gelatin films for gas separation. CrystEngComm, 2015, 17, 1576-1582.	2.6	18
88	Au/CuO nanosheets composite for glucose sensor and CO oxidation. RSC Advances, 2015, 5, 9130-9137.	3.6	26
89	Benzenedicarboxylic acid-assisted synthesis of ZnO micro-hexagons from zinc hydroxide nanostrands and their photoluminescence properties. Applied Physics A: Materials Science and Processing, 2015, 118, 683-690.	2.3	4
90	Au nanoparticle-decorated ultrathin CdS nanowires for high-efficiency photodegradation of organic dyes. Applied Physics A: Materials Science and Processing, 2015, 120, 1291-1297.	2.3	10

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91	Ammonia assisted formation of tubular MOP-18 crystals. CrystEngComm, 2014, 16, 10916-10920.	2.6	5
92	Understanding Water Permeation in Graphene Oxide Membranes. ACS Applied Materials & Interfaces, 2014, 6, 5877-5883.	8.0	415
93	Facile synthesis of highly fluorescent gelatin/Si nanocrystals composite thin films for optical detection of amines in water. Journal of Materials Chemistry C, 2014, 2, 1971.	5.5	5
94	Anodic electrodeposition of a porous nickel oxide-hydroxide film on passivated nickel foam for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 7161-7164.	10.3	70
95	Breakdown of fast water transport in graphene oxides. Physical Review E, 2014, 89, 012113.	2.1	164
96	General incorporation of diverse components inside metal-organic framework thin films at room temperature. Nature Communications, 2014, 5, 5532.	12.8	155
97	The highly enhanced performance of lamellar WS ₂ nanosheet electrodes upon intercalation of single-walled carbon nanotubes for supercapacitors and lithium ions batteries. Chemical Communications, 2014, 50, 4485.	4.1	150
98	Zinc hydroxide nanostrands: unique precursors for synthesis of ZIF-8 thin membranes exhibiting high size-sieving ability for gas separation. CrystEngComm, 2014, 16, 9788-9791.	2.6	31
99	Starfish-like Au-CdS hybrids for the highly efficient photocatalytic degradation of organic dyes. RSC Advances, 2014, 4, 42441-42444.	3.6	9
100	In-plane mesoporous graphene oxide nanosheet assembled membranes for molecular separation. RSC Advances, 2014, 4, 21425.	3.6	72
101	Binder-free three-dimensional porous Mn ₃ O ₄ nanorods/reduced graphene oxide paper-like electrodes for electrochemical energy storage. RSC Advances, 2014, 4, 16374.	3.6	53
102	Graphene oxide nanosheet: an emerging star material for novel separation membranes. Journal of Materials Chemistry A, 2014, 2, 13772-13782.	10.3	316
103	Ultrafast viscous water flow through nanostrand-channelled graphene oxide membranes. Nature Communications, 2013, 4, 2979.	12.8	673
104	Laminar MoS ₂ membranes for molecule separation. Chemical Communications, 2013, 49, 10718.	4.1	274
105	Enhanced gas separation through well-intergrown MOF membranes: seed morphology and crystal growth effects. Journal of Materials Chemistry A, 2013, 1, 11711.	10.3	45
106	Superior separation performance of ultrathin gelatin films. Journal of Materials Chemistry A, 2013, 1, 1899-1906.	10.3	18
107	Mesoporous separation membranes of {[Cu(BTC)(H ₂) ₂] ₂ ·(H ₂ O) ₂ ·3H ₂ O} nanobelts synthesized by ultrasonication at room temperature. CrystEngComm, 2013, 15, 265-270.	2.6	29
108	Nanoporous ZnO nanostructures for photocatalytic degradation of organic pollutants. Applied Physics A: Materials Science and Processing, 2013, 110, 351-359.	2.3	22

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109	Salt concentration, pH and pressure controlled separation of small molecules through lamellar graphene oxide membranes. <i>Chemical Communications</i> , 2013, 49, 5963.	4.1	367
110	Highly enhanced capacitance of CuO nanosheets by formation of CuO/SWCNT networks through electrostatic interaction. <i>Electrochimica Acta</i> , 2013, 104, 289-294.	5.2	72
111	High catalytic performance of gold nanoparticle-gelatin mesoporous composite thin films. <i>Journal of Materials Chemistry</i> , 2012, 22, 21117.	6.7	15
112	Thin copper oxide nanowires/carbon nanotubes interpenetrating networks for lithium ion batteries. <i>CrystEngComm</i> , 2012, 14, 7294.	2.6	30
113	Mesoporous protein thin films for molecule delivery. <i>Journal of Materials Chemistry</i> , 2011, 21, 13172.	6.7	10
114	Flexible ultrathin free-standing fluorescent films of CdSexS1~x/ZnS nanocrystalline and protein. <i>Journal of Materials Chemistry</i> , 2011, 21, 4424.	6.7	11
115	Filtration-assembling colloidal crystal templates for ordered macroporous nanoparticle films. <i>Journal of Materials Chemistry</i> , 2011, 21, 18089.	6.7	11
116	Ultrathin freestanding nanoporous membranes prepared from polystyrene nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 1684-1688.	6.7	62
117	Manganese oxyhydroxide and oxide nanofibers for high efficiency degradation of organic pollutants. <i>Nanotechnology</i> , 2011, 22, 015701.	2.6	29
118	Green-Chemical Synthesis of Ultrathin MnOOH Nanofibers for Separation Membranes. <i>Advanced Functional Materials</i> , 2011, 21, 2080-2087.	14.9	62
119	Ultrafast permeation of water through protein-based membranes. <i>Nature Nanotechnology</i> , 2009, 4, 353-357.	31.5	312
120	Time-dependent growth of zinc hydroxide nanostrands and their crystal structure. <i>Chemical Communications</i> , 2008, , 1904.	4.1	49
121	General Method for Ultrathin Free-Standing Films of Nanofibrous Composite Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 8625-8633.	13.7	115
122	Optical-switched proton logic gate: Indocyanine green decorated HSB-W5 MOFs nanosheets. <i>Science China Materials</i> , 0, , 1.	6.3	4
123	Turing Structured Au/Graphene Oxide-Polyethylene Glycol Thin Film for Surface Enhanced Raman Scattering Detection of Trace Dye. <i>Advanced Materials Interfaces</i> , 0, , 2102461.	3.7	3