

Xinsheng Peng

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

6,295
citations

36
h-index

78
g-index

123
ext. papers

7,643
ext. citations

8.7
avg, IF

6.4
L-index

#	Paper	IF	Citations
122	Oriental seawater transportation through Cu(TCNQ) nanorod arrays for efficient solar desalination and salt production. <i>Desalination</i> , 2022 , 522, 115399	10.3	5
121	Ultra-fast photothermal-responsive Fe-TCPP-based thin-film nanocomposite membranes for ON/OFF switchable nanofiltration. <i>Separation and Purification Technology</i> , 2022 , 278, 119528	8.3	4
120	Stable Two-dimensional Nanoconfined Ionic Liquids with Highly Efficient Ionic Conductivity.. <i>Small</i> , 2022 , 18, e2108026	11	1
119	Graphene oxide constructed nano Newton's cradle for ultrafast and highly selective CO ₂ transport. <i>Journal of Membrane Science</i> , 2022 , 652, 120475	9.6	2
118	Enhanced molecular transport in two-dimensional nanoconfined ionic liquids. <i>Applied Materials Today</i> , 2022 , 27, 101458	6.6	1
117	Photothermal-driven interfacial-polymerized ultrathin polyamide selective layer for nanofiltration. <i>Chemical Engineering Journal</i> , 2022 , 440, 136012	14.7	1
116	Superhydrophilic and Photothermal Fe-TCPP Nanofibrous Membrane for Efficient Oil-in-Water Nanoemulsion Separation. <i>Langmuir</i> , 2021 , 37, 12981-12989	4	2
115	Carbon nanotubes decorated hollow metal-organic frameworks for efficient solar-driven atmospheric water harvesting. <i>Chemical Engineering Journal</i> , 2021 , 430, 133086	14.7	5
114	Photogated proton conductivity of ZIF-8 membranes co-modified with graphene quantum dots and polystyrene sulfonate. <i>Science China Materials</i> , 2021 , 64, 1997-2007	7.1	2
113	Near-Infrared-Light emitting diode driven white light Emission: Upconversion nanoparticles decorated Metal-Organic Frameworks thin film. <i>Chemical Engineering Journal</i> , 2021 , 409, 128220	14.7	3
112	2D Zr-Fc metal-organic frameworks with highly efficient anchoring and catalytic conversion ability towards polysulfides for advanced Li-S battery. <i>Energy Storage Materials</i> , 2021 , 36, 466-477	19.4	34
111	CaCl ₂ Nanocrystals decorated photothermal Fe-ferrocene MOFs hollow microspheres for atmospheric water harvesting. <i>Applied Materials Today</i> , 2021 , 23, 101076	6.6	6
110	Photothermal responsive ultrathin Cu-TCPP nanosheets/sulfonated polystyrene nanocomposite photo-switch proton conducting membranes. <i>Journal of Membrane Science</i> , 2021 , 620, 118888	9.6	8
109	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO ₂ separation. <i>Chemical Engineering Journal</i> , 2021 , 405, 126961	14.7	24
108	Efficiently cogenerating drinkable water and electricity from seawater via flexible MOF nanorod arrays. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9048-9055	13	11
107	Charge separation in hybrid metal-organic framework films for enhanced catalytic CO ₂ conversion. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2694-2699	13	7
106	Polyaniline-Coated MOFs Nanorod Arrays for Efficient Evaporation-Driven Electricity Generation and Solar Steam Desalination. <i>Advanced Science</i> , 2021 , 8, 2004552	13.6	30

105	Cu-TCPP nanosheets blended polysulfone ultrafiltration membranes with enhanced antifouling and photo-tunable porosity. <i>Separation and Purification Technology</i> , 2021 , 268, 118688	8.3	8
104	NH ₂ -UiO-66 Metal-Organic Framework Nanoparticles for Hydroxide Ion Conductive Photoswitches. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8352-8359	5.6	3
103	Bio-inspired ferromagnetic graphene oxide/magnetic ionic liquid membrane for highly efficient CO ₂ separation. <i>Applied Materials Today</i> , 2021 , 24, 101164	6.6	1
102	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	21.8	8
101	Accelerating CO ₂ transport through nanoconfined magnetic ionic liquid in laminated BN membrane. <i>Chemical Engineering Journal</i> , 2021 , 423, 130309	14.7	6
100	A unique photoswitch: intrinsic photothermal heating induced reversible proton conductivity of a HKUST-1 membrane. <i>Dalton Transactions</i> , 2021 , 50, 2731-2735	4.3	4
99	Light-gated cation-selective transport in metal-organic framework membranes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11399-11405	13	27
98	FePt intermetallic nanoparticles anchored on N-doped mesoporous carbon for the highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2020 , 56, 4898-4901	5.8	10
97	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	2.6	1
96	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. <i>Angewandte Chemie</i> , 2020 , 132, 7806-7811	3.6	5
95	Facilitate Gas Transport through Metal-Organic Polyhedra Constructed Porous Liquid Membrane. <i>Small</i> , 2020 , 16, e1907016	11	26
94	Co-ferrocene MOF/Glucose Oxidase as Cascade Nanozyme for Effective Tumor Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 1910085	15.6	141
93	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7732-7737	16.4	51
92	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. <i>ChemCatChem</i> , 2020 , 12, 3870-3879	5.2	17
91	Rational design of a Fe/S/N/C catalyst from ZIF-8 for efficient oxygen reduction reaction. <i>Nanotechnology</i> , 2020 , 31, 475404	3.4	1
90	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	7.1	20
89	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	8.9	17
88	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	13	23

87	A self-confinement synthesis of a POM-decorated MOF thin film for actively hydrolyzing ethyl acetate. <i>Chemical Communications</i> , 2020 , 56, 13840-13843	5.8	5
86	Ag-DNA@ZIF-8 membrane: A proton conductive photoswitch. <i>Applied Materials Today</i> , 2020 , 20, 1007616.6		5
85	Photothermal-Responsive Microporous Nanosheets Confined Ionic Liquid for Efficient CO Separation. <i>Small</i> , 2020 , 16, e2002699	11	13
84	A robust asymmetric porous SWCNT/Gelatin thin membrane with salt-resistant for efficient solar vapor generation. <i>Applied Materials Today</i> , 2020 , 18, 100459	6.6	14
83	One Stone Two Birds: Zr-Fc Metal-Organic Framework Nanosheet for Synergistic Photothermal and Chemodynamic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20321-20330	9.5	51
82	Sulfonated Sub-Nanochannels in a Robust MOF Membrane: Harvesting Salinity Gradient Power. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35496-35500	9.5	10
81	Simultaneous Recovery of Metal Ions and Electricity Harvesting via K-Carrageenan@ZIF-8 Membrane. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34039-34045	9.5	13
80	Laminated mica nanosheets supported ionic liquid membrane for CO separation. <i>Nanotechnology</i> , 2019 , 30, 385705	3.4	11
79	Selectively tuning gas transport through ionic liquid filled graphene oxide nanoslits using an electric field. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15062-15067	13	29
78	Highly conductive and transparent metal-organic frameworks thin film. <i>Science China Materials</i> , 2019 , 62, 1350-1356	7.1	5
77	R-phycoerythrin proteins@ZIF-8 composite thin films for mercury ion detection. <i>Analyst, The</i> , 2019 , 144, 3892-3897	5	6
76	Ferrocenyl metal-organic framework hollow microspheres for in situ loading palladium nanoparticles as a heterogeneous catalyst. <i>Dalton Transactions</i> , 2019 , 48, 8995-9003	4.3	11
75	Electrical field facilitates selective transport of CO ₂ through a laminated MoS ₂ supported ionic liquid membrane. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10041-10046	13	24
74	Hierarchical Porous SWCNT Stringed Carbon Polyhedrons and PSS Threaded MOF Bilayer Membrane for Efficient Solar Vapor Generation. <i>Small</i> , 2019 , 15, e1900354	11	53
73	Dual emission from nanoconfined R-phycoerythrin fluorescent proteins for white light emission diodes.. <i>RSC Advances</i> , 2019 , 9, 9777-9782	3.7	13
72	Ferrocenecarboxylic acid: a functional modulator for UiO-66 synthesis and incorporation of Pd nanoparticles. <i>CrystEngComm</i> , 2019 , 21, 1772-1779	3.3	10
71	Nitrogen-doped porous carbon sponge-confined ZnO quantum dots for metal collector-free lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113275	4.1	6
70	Carbon nanofiber stringed hierarchical porous carbon polyhedrons flexible thin films for solar vapor generation. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	5

69	CO ₂ -philic Separation Membrane: Deep Eutectic Solvent Filled Graphene Oxide Nanoslits. <i>Small</i> , 2019 , 15, e1904145	11	37
68	Graphene oxide nanoslit-confined AgBF ₄ /ionic liquid for efficiently separating olefin from paraffin. <i>Nanotechnology</i> , 2019 , 31, 085703	3.4	5
67	Porous cellulose nanofiber stringed HKUST-1 polyhedron membrane for air purification. <i>Applied Materials Today</i> , 2019 , 14, 96-101	6.6	47
66	Mass transport through metal organic framework membranes. <i>Science China Materials</i> , 2019 , 62, 25-42	7.1	25
65	Cross-flow-assembled ultrathin and robust graphene oxide membranes for efficient molecule separation. <i>Nanotechnology</i> , 2018 , 29, 155602	3.4	10
64	Polyamide membranes with nanoscale Turing structures for water purification. <i>Science</i> , 2018 , 360, 518-521	33.3	571
63	Blocking Polysulfides and Facilitating Lithium-Ion Transport: Polystyrene Sulfonate@HKUST-1 Membrane for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30451-30459	9.5	51
62	CO ₂ -philic WS ₂ laminated membranes with a nanoconfined ionic liquid. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16566-16573	13	24
61	Ionic Liquid Selectively Facilitates CO Transport through Graphene Oxide Membrane. <i>ACS Nano</i> , 2018 , 12, 5385-5393	16.7	99
60	A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. <i>Advanced Materials</i> , 2018 , 30, 1705155	24	101
59	Highly conductive PEDOT:PSS threaded HKUST-1 thin films. <i>Chemical Communications</i> , 2018 , 54, 13865-13868	3868	22
58	Phase-Dependent Fluorescence Quenching Efficiency of MoS ₂ Nanosheets and Their Applications in Multiplex Target Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42009-42017	9.5	31
57	Zwitterion threaded metal-organic framework membranes for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19547-19554	13	20
56	Foldable interpenetrated metal-organic frameworks/carbon nanotubes thin film for lithium-sulfur batteries. <i>Nature Communications</i> , 2017 , 8, 14628	17.4	359
55	Recent advances of nanomaterial-based membrane for water purification. <i>Applied Materials Today</i> , 2017 , 7, 144-158	6.6	117
54	CNT-threaded N-doped porous carbon film as binder-free electrode for high-capacity supercapacitor and LiS battery. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9775-9784	13	99
53	Robust GQDs Modified Thermally Reduced Graphene Oxide Membranes for Ultrafast and Long-Term Purification of Dye-Wasted Water. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700209	4.6	20
52	Flexible and Binder-Free Hierarchical Porous Carbon Film for Supercapacitor Electrodes Derived from MOFs/CNT. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14043-14050	9.5	117

51	Solid Confinement of Quantum Dots in ZIF-8 for Efficient and Stable Color-Conversion White LEDs. <i>ChemSusChem</i> , 2017 , 10, 1346-1350	8.3	11
50	Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 6272-6276	3.6	30
49	Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6176-6180	16.4	127
48	Hydrophobic and porous cellulose nanofibrous screen for efficient particulate matter (PM2.5) blocking. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 405304	3	4
47	Enhanced Gas Separation through Nanoconfined Ionic Liquid in Laminated MoS Membrane. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44251-44257	9.5	48
46	High aspect ratio tungsten grating on ultrathin Si membranes for extreme UV lithography. <i>Nanotechnology</i> , 2016 , 27, 352501	3.4	
45	ZIF-8 coated polyvinylidene fluoride (PVDF) hollow fiber for highly efficient separation of small dye molecules. <i>Applied Materials Today</i> , 2016 , 5, 103-110	6.6	35
44	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. <i>Angewandte Chemie</i> , 2016 , 128, 15344-15348	3.6	40
43	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15120-15124	16.4	178
42	Fe ₃ O ₄ nanoparticle anchored layered graphene films for high performance lithium storage. <i>New Journal of Chemistry</i> , 2016 , 40, 2649-2654	3.6	16
41	Mechanical enhancement of a nanoconfined-electrodeposited nacre-like Cu ₂ O layered crystal/graphene oxide nanosheet composite thin film. <i>RSC Advances</i> , 2016 , 6, 94845-94850	3.7	4
40	Self-confined synthesis of HKUST-1 membranes from CuO nanosheets at room temperature. <i>ChemistrySelect</i> , 2016 , 1, 108-113	1.8	17
39	Benzenedicarboxylic acid-assisted synthesis of ZnO micro-hexagons from zinc hydroxide nanostrands and their photoluminescence properties. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 683-690	2.6	4
38	Au nanoparticle-decorated ultrathin CdS nanowires for high-efficiency photodegradation of organic dyes. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 1291-1297	2.6	8
37	Hierarchical Mesoporous Metal-Organic Frameworks for Enhanced CO ₂ Capture. <i>Chemistry - A European Journal</i> , 2015 , 21, 15127-32	4.8	44
36	Porous reduced graphene oxide paper as a binder-free electrode for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 27175-27180	3.7	10
35	Room temperature synthesis of ZIF-8 membranes from seeds anchored in gelatin films for gas separation. <i>CrystEngComm</i> , 2015 , 17, 1576-1582	3.3	15
34	Au/CuO nanosheets composite for glucose sensor and CO oxidation. <i>RSC Advances</i> , 2015 , 5, 9130-9137	3.7	24

33	Understanding water permeation in graphene oxide membranes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5877-83	9.5	339
32	Facile synthesis of highly fluorescent gelatin/Si nanocrystals composite thin films for optical detection of amines in water. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1971	7.1	4
31	Anodic electrodeposition of a porous nickel oxide/hydroxide film on passivated nickel foam for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7161-7164	13	54
30	Breakdown of fast water transport in graphene oxides. <i>Physical Review E</i> , 2014 , 89, 012113	2.4	145
29	General incorporation of diverse components inside metal-organic framework thin films at room temperature. <i>Nature Communications</i> , 2014 , 5, 5532	17.4	139
28	The highly enhanced performance of lamellar WS ₂ nanosheet electrodes upon intercalation of single-walled carbon nanotubes for supercapacitors and lithium ions batteries. <i>Chemical Communications</i> , 2014 , 50, 4485-8	5.8	134
27	Zinc hydroxide nanostrands: unique precursors for synthesis of ZIF-8 thin membranes exhibiting high size-sieving ability for gas separation. <i>CrystEngComm</i> , 2014 , 16, 9788-9791	3.3	26
26	Starfish-like Au@DS hybrids for the highly efficient photocatalytic degradation of organic dyes. <i>RSC Advances</i> , 2014 , 4, 42441-42444	3.7	8
25	In-plane mesoporous graphene oxide nanosheet assembled membranes for molecular separation. <i>RSC Advances</i> , 2014 , 4, 21425	3.7	61
24	Binder-free three-dimensional porous Mn ₃ O ₄ nanorods/reduced graphene oxide paper-like electrodes for electrochemical energy storage. <i>RSC Advances</i> , 2014 , 4, 16374	3.7	50
23	Graphene oxide nanosheet: an emerging star material for novel separation membranes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13772-13782	13	267
22	Ammonia assisted formation of tubular MOP-18 crystals. <i>CrystEngComm</i> , 2014 , 16, 10916-10920	3.3	5
21	Ultrafast viscous water flow through nanostrand-channelled graphene oxide membranes. <i>Nature Communications</i> , 2013 , 4, 2979	17.4	575
20	Laminar MoS ₂ membranes for molecule separation. <i>Chemical Communications</i> , 2013 , 49, 10718-20	5.8	212
19	Enhanced gas separation through well-intergrown MOF membranes: seed morphology and crystal growth effects. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11711	13	32
18	Superior separation performance of ultrathin gelatin films. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1899-1906	13	17
17	Mesoporous separation membranes of {[Cu(BTC)(H ₂ O) ₂](H ₂ O)} nanobelts synthesized by ultrasonication at room temperature. <i>CrystEngComm</i> , 2013 , 15, 265-270	3.3	25
16	Nanoporous ZnO nanostructures for photocatalytic degradation of organic pollutants. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 351-359	2.6	22

15	Salt concentration, pH and pressure controlled separation of small molecules through lamellar graphene oxide membranes. <i>Chemical Communications</i> , 2013 , 49, 5963-5	5.8	303
14	Highly enhanced capacitance of CuO nanosheets by formation of CuO/SWCNT networks through electrostatic interaction. <i>Electrochimica Acta</i> , 2013 , 104, 289-294	6.7	69
13	High catalytic performance of gold nanoparticle-gelatin mesoporous composite thin films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21117		15
12	Thin copper oxide nanowires/carbon nanotubes interpenetrating networks for lithium ion batteries. <i>CrystEngComm</i> , 2012 , 14, 7294	3.3	27
11	Manganese oxyhydroxide and oxide nanofibers for high efficiency degradation of organic pollutants. <i>Nanotechnology</i> , 2011 , 22, 015701	3.4	28
10	Green-Chemical Synthesis of Ultrathin MnOOH Nanofibers for Separation Membranes. <i>Advanced Functional Materials</i> , 2011 , 21, 2080-2087	15.6	57
9	Mesoporous protein thin films for molecule delivery. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13172		10
8	Flexible ultrathin free-standing fluorescent films of CdSexS1-x/ZnS nanocrystalline and protein. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4424		11
7	Filtration-assembling colloidal crystal templates for ordered macroporous nanoparticle films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18089		11
6	Ultrathin freestanding nanoporous membranes prepared from polystyrene nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1684-1688		53
5	Ultrafast permeation of water through protein-based membranes. <i>Nature Nanotechnology</i> , 2009 , 4, 353-357	28.7	274
4	Time-dependent growth of zinc hydroxide nanostrands and their crystal structure. <i>Chemical Communications</i> , 2008 , 1904-6	5.8	43
3	General method for ultrathin free-standing films of nanofibrous composite materials. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8625-33	16.4	105
2	Tuning Structured Au/Graphene Oxide-Polyethylene Glycol Thin Film for Surface Enhanced Raman Scattering Detection of Trace Dye. <i>Advanced Materials Interfaces</i> , 2102461	4.6	2
1	Optical-switched proton logic gate: Indocyanine green decorated HSB-W5 MOFs nanosheets. <i>Science China Materials</i> , 1	7.1	1