

Hao-Cheng Yang

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,330
citations

66250

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73587

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times ranked

7435
citing authors

#	ARTICLE	IF	CITATIONS
1	Recyclable and Self-Repairable Epoxy Anticorrosion Coatings with Curing-Controlled Thermoplasticity. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1035-1046.	2.0	6
2	Endogenous Ionic-Liquid-Infused Coatings by Phase Separation for Anti-Fouling and Anti-Bacterial Applications. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
3	Surface and Interface Engineering of Polymer Membranes: Where We Are and Where to Go. <i>Macromolecules</i> , 2022, 55, 3363-3383.	2.2	23
4	Cu ²⁺ /alginate nanofiltration membranes fabricated at the aqueous contra-diffusion interface for salt/dye rejection. <i>Desalination</i> , 2022, 535, 115806.	4.0	9
5	Solar-driven evaporators for water treatment: challenges and opportunities. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 24-39.	1.2	94
6	Brushable Lubricant-Infused Porous Coating with Enhanced Stability by One-Step Phase Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23134-23141.	4.0	13
7	Anti-corrosion coating within a polymer network: Enabling photothermal repairing underwater. <i>Chemical Engineering Journal</i> , 2021, 412, 128640.	6.6	25
8	Sandwich-Structured Photothermal Wood for Durable Moisture Harvesting and Pumping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33713-33721.	4.0	18
9	Suspended Membrane Evaporators Integrating Environmental and Solar Evaporation for Oily Wastewater Purification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39513-39522.	4.0	54
10	When SLIPS meets TIPS: An endogenous lubricant-infused surface by taking the diluent as the lubricant. <i>Chemical Engineering Journal</i> , 2021, 425, 130600.	6.6	12
11	Photothermal Devices for Sustainable Uses Beyond Desalination. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000056.	2.8	32
12	Green Photothermal Ink for 0D to 3D Solar-Driven Devices. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101639.	1.9	7
13	Tailored PEDOT:PSS hole transport layer for higher performance in perovskite solar cells: Enhancement of electrical and optical properties with improved morphology. <i>Journal of Energy Chemistry</i> , 2020, 44, 41-50.	7.1	105
14	Recent progress in molecular engineering to tailor organic-inorganic interfaces in composite membranes. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 433-444.	1.7	54
15	Ferric tannate photothermal material for efficient water distillation. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 911-915.	1.2	30
16	Slippery liquid-infused porous surface via thermally induced phase separation for enhanced corrosion protection. <i>Journal of Polymer Science</i> , 2020, 58, 3031-3041.	2.0	13
17	Introduction to molecular engineering for water technologies. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 900-901.	1.7	2
18	Slippery liquid-infused porous surfaces (SLIPSs): a perfect solution to both marine fouling and corrosion?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7536-7547.	5.2	104

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19	Mussel-Inspired Surface Engineering for Water-Remediation Materials. <i>Matter</i> , 2019, 1, 115-155.	5.0	301
20	Direct synthesis of layered double hydroxides monolayer nanosheets for co-assembly of nanobrick wall hybrid film with excellent corrosion resistance. <i>Applied Surface Science</i> , 2019, 493, 239-249.	3.1	21
21	Dual-Layer Nanofilms via Mussel-Inspiration and Silication for Non-Iridescent Structural Color Spectrum in Flexible Displays. <i>ACS Applied Nano Materials</i> , 2019, 2, 4556-4566.	2.4	22
22	Water Treatment: Porphyrin Covalent Organic Framework (POF)-Based Interface Engineering for Solar Steam Generation (<i>Adv. Mater. Interfaces</i> 11/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970072.	1.9	5
23	Porphyrin Covalent Organic Framework (POF)-Based Interface Engineering for Solar Steam Generation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900254.	1.9	76
24	Nitrogen-doped Nb ₂ CTx MXene as anode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 793, 505-511.	2.8	87
25	Chinese Ink: A Powerful Photothermal Material for Solar Steam Generation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801252.	1.9	100
26	Solar Steam: Chinese Ink: A Powerful Photothermal Material for Solar Steam Generation (<i>Adv. Mater.</i>)	1.9	15
27	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5570-5577.	4.0	29
28	Ultrafast formation of pyrogallol/polyethyleneimine nanofilms for aqueous and organic nanofiltration. <i>Journal of Membrane Science</i> , 2019, 570-571, 270-277.	4.1	23
29	Membranes: Dopamine: Just the Right Medicine for Membranes (<i>Adv. Funct. Mater.</i> 8/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870052.	7.8	6
30	Janus Membranes with Charged Carbon Nanotube Coatings for Deemulsification and Separation of Oil-in-Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9832-9840.	4.0	130
31	Nanofilms directly formed on macro-porous substrates for molecular and ionic sieving. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2908-2913.	5.2	33
32	Dopamine: Just the Right Medicine for Membranes. <i>Advanced Functional Materials</i> , 2018, 28, 1705327.	7.8	222
33	Dopamine-assisted co-deposition: An emerging and promising strategy for surface modification. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 111-125.	7.0	202
34	Atomic layer deposition for membrane interface engineering. <i>Nanoscale</i> , 2018, 10, 20505-20513.	2.8	74
35	Co-deposition Kinetics of Polydopamine/Polyethyleneimine Coatings: Effects of Solution Composition and Substrate Surface. <i>Langmuir</i> , 2018, 34, 13123-13131.	1.6	106
36	Janus Membrane: Janus Membranes: Creating Asymmetry for Energy Efficiency (<i>Adv. Mater.</i> 43/2018). <i>Advanced Materials</i> , 2018, 30, 1870328.	11.1	7

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37	Iono-Elastomer-Based Wearable Strain Sensor with Real-Time Thermomechanical Dual Response. ACS Applied Materials & Interfaces, 2018, 10, 32435-32443.	4.0	27
38	Janus Membranes: Creating Asymmetry for Energy Efficiency. Advanced Materials, 2018, 30, e1801495.	11.1	193
39	Crude-Oil-Repellent Membranes by Atomic Layer Deposition: Oxide Interface Engineering. ACS Nano, 2018, 12, 8678-8685.	7.3	150
40	Janus Membranes via Diffusion-Controlled Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800658.	1.9	59
41	Janus Membranes with Opposing Surface Wettability Enabling Oil-to-Water and Water-to-Oil Emulsification. ACS Applied Materials & Interfaces, 2017, 9, 5062-5066.	4.0	97
42	Superhydrophobic membranes via facile bio-inspired mineralization for vacuum membrane distillation. Journal of Membrane Science, 2017, 540, 98-107.	4.1	53
43	Separators with Biomineralized Zirconia Coatings for Enhanced Thermo- and Electro-Performance of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 21971-21978.	4.0	50
44	Nanofiltration membranes with cellulose nanocrystals as an interlayer for unprecedented performance. Journal of Materials Chemistry A, 2017, 5, 16289-16295.	5.2	291
45	Preparation of Iridescent 2D Photonic Crystals by Using a Mussel-Inspired Spatial Patterning of ZIF-8 with Potential Applications in Optical Switch and Chemical Sensor. ACS Applied Materials & Interfaces, 2017, 9, 38076-38080.	4.0	47
46	Codeposition of catechol-polyethyleneimine followed by interfacial polymerization for nanofiltration membranes with enhanced stability. Journal of Applied Polymer Science, 2017, 134, 45422.	1.3	31
47	Janus Reactors with Highly Efficient Enzymatic CO ₂ Nanocascade at Air-Liquid Interface. ACS Applied Materials & Interfaces, 2017, 9, 42806-42815.	4.0	25
48	Janus hollow fiber membrane with a mussel-inspired coating on the lumen surface for direct contact membrane distillation. Journal of Membrane Science, 2017, 523, 1-7.	4.1	110
49	Composite nanofiltration membranes via the co-deposition and cross-linking of catechol/polyethyleneimine. RSC Advances, 2016, 6, 34096-34102.	1.7	49
50	Surface and interface engineering for organic-inorganic composite membranes. Journal of Materials Chemistry A, 2016, 4, 9716-9729.	5.2	143
51	Janus Membranes: Exploring Duality for Advanced Separation. Angewandte Chemie - International Edition, 2016, 55, 13398-13407.	7.2	407
52	Polyphenol Coating as an Interlayer for Thin-Film Composite Membranes with Enhanced Nanofiltration Performance. ACS Applied Materials & Interfaces, 2016, 8, 32512-32519.	4.0	206
53	Janus-Membranen: Erforschung ihrer Dualität für hochentwickelte Stofftrennungen. Angewandte Chemie, 2016, 128, 13596-13605.	1.6	13
54	Effects of polyethyleneimine molecular weight and proportion on the membrane hydrophilization by codepositing with dopamine. Journal of Applied Polymer Science, 2016, 133, .	1.3	95

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55	Janus Membranes with Asymmetric Wettability for Fine Bubble Aeration. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500774.	1.9	119
56	Thin film composite membranes combining carbon nanotube intermediate layer and microfiltration support for high nanofiltration performances. <i>Journal of Membrane Science</i> , 2016, 515, 238-244.	4.1	239
57	Novel nanofiltration membrane with ultrathin zirconia film as selective layer. <i>Journal of Membrane Science</i> , 2016, 500, 265-271.	4.1	84
58	Co-deposition of tannic acid and diethylenetriamine for surface hydrophilization of hydrophobic polymer membranes. <i>Applied Surface Science</i> , 2016, 360, 291-297.	3.1	74
59	Polypropylene microfiltration membranes modified with TiO ₂ nanoparticles for surface wettability and antifouling property. <i>Journal of Membrane Science</i> , 2016, 500, 8-15.	4.1	116
60	Polydopamine as a Catalyst for Thiol Coupling. <i>ChemCatChem</i> , 2015, 7, 3822-3825.	1.8	22
61	Underwater superoleophobic meshes fabricated by poly(sulfobetaine)/polydopamine co-deposition. <i>RSC Advances</i> , 2015, 5, 47592-47598.	1.7	35
62	Co-deposition of catechol/polyethyleneimine on porous membranes for efficient decolorization of dye water. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14438-14444.	5.2	150
63	Polydopamine-assisted deposition of heparin for selective adsorption of low-density lipoprotein. <i>RSC Advances</i> , 2015, 5, 12922-12930.	1.7	22
64	Highly Stable, Protein-Resistant Surfaces via the Layer-by-Layer Assembly of Poly(sulfobetaine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.6	76
65	Mussel-Inspired Modification of Honeycomb Structured Films for Superhydrophobic Surfaces with Tunable Water Adhesion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3667-3673.	1.5	37
66	Polymer membrane with a mineral coating for enhanced curling resistance and surface wettability. <i>Chemical Communications</i> , 2015, 51, 12779-12782.	2.2	48
67	Polydopamine-Coated Porous Substrates as a Platform for Mineralized \hat{I}^2 -FeOOH Nanorods with Photocatalysis under Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11567-11574.	4.0	150
68	Surface engineering of polymer membranes via mussel-inspired chemistry. <i>Journal of Membrane Science</i> , 2015, 483, 42-59.	4.1	358
69	Underwater superoleophobic coatings fabricated from tannic acid-decorated carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 16112-16115.	1.7	18
70	Nanofiltration membranes via co-deposition of polydopamine/polyethylenimine followed by cross-linking. <i>Journal of Membrane Science</i> , 2015, 476, 50-58.	4.1	294
71	Fabrication of antifouling membrane surface by poly(sulfobetaine methacrylate)/polydopamine co-deposition. <i>Journal of Membrane Science</i> , 2014, 466, 18-25.	4.1	220
72	Composite free-standing films of polydopamine/polyethyleneimine grown at the air/water interface. <i>RSC Advances</i> , 2014, 4, 45415-45418.	1.7	81

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73	Nonlithographic Fabrication of Nanostructured Micropatterns via Breath Figures and Solution Growth. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4403-4409.	1.5	20
74	Mussel-inspired modification of a polymer membrane for ultra-high water permeability and oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10225-10230.	5.2	620
75	Silica-Decorated Polypropylene Microfiltration Membranes with a Mussel-Inspired Intermediate Layer for Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12566-12572.	4.0	295
76	Polydopamine gradients by oxygen diffusion controlled autoxidation. <i>Chemical Communications</i> , 2013, 49, 10522.	2.2	96
77	Thermally induced phase separation of poly(vinylidene fluoride)/diluent systems: Optical microscope and infrared spectroscopy studies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1438-1447.	2.4	34
78	PREPARATION OF POROUS POLYACRYLONITRILE ULTRATHIN FIBERS BY ELECTROSPINNING WITH NONSOLVENT INDUCED PHASE SEPARATION. <i>Acta Polymerica Sinica</i> , 2013, 013, 248-254.	0.0	1