

Liangmin Yu

List of Publications by Year in descending order

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83
papers

2,092
citations

257450

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276875

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docs citations

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times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolution Engineering of Platinum Alloy Counter Electrodes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11448-11452.	13.8	168
2	Recent advances in critical materials for quantum dot-sensitized solar cells: a review. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17497-17510.	10.3	158
3	Solar-Driven Interfacial Evaporation and Self-Powered Water Wave Detection Based on an All-Cellulose Monolithic Design. <i>Advanced Functional Materials</i> , 2021, 31, 2008681.	14.9	150
4	Self-Repairing and Damage-Tolerant Hydrogels for Efficient Solar-Powered Water Purification and Desalination. <i>Advanced Functional Materials</i> , 2021, 31, 2104464.	14.9	93
5	Design of monolithic closed-cell polymer foams <i>via</i> controlled gas-foaming for high-performance solar-driven interfacial evaporation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9692-9705.	10.3	77
6	Heterostructures of Ag ₃ PO ₄ /TiO ₂ mesoporous spheres with highly efficient visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 246-253.	9.4	55
7	Solid-state dye-sensitized solar cells from poly(ethylene oxide)/polyaniline electrolytes with catalytic and hole-transporting characteristics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5368-5374.	10.3	53
8	A novel long-lasting antifouling membrane modified with bifunctional capsaicin-mimic moieties via in situ polymerization for efficient water purification. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10352-10362.	10.3	48
9	A 3D Hemispheric Steam Generator Based on An Organic-Inorganic Composite Light Absorber for Efficient Solar Evaporation and Desalination. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901715.	3.7	45
10	Progress and trends of photodynamic therapy: From traditional photosensitizers to AIE-based photosensitizers. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102254.	2.6	43
11	Highly Conductive Polypyrrole/Fe ₂ O ₃ Nanospheres with Good Magnetic Properties Obtained through an Improved Chemical One-Step Method. <i>Macromolecules</i> , 2011, 44, 4610-4615.	4.8	41
12	Lectin functionalized ZnO nanoarrays as a 3D nano-biointerface for bacterial detection. <i>Talanta</i> , 2017, 167, 600-606.	5.5	41
13	Nanomaterial-based strategies in antimicrobial applications: Progress and perspectives. <i>Nano Research</i> , 2021, 14, 4417-4441.	10.4	39
14	Electrochemical corrosion behavior of carbon steel coated by polyaniline copolymers micro/nanostructures. <i>RSC Advances</i> , 2014, 4, 32718.	3.6	38
15	Design of self-righting steam generators for solar-driven interfacial evaporation and self-powered water wave detection. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24664-24674.	10.3	36
16	Synthesis and fouling resistance of capsaicin derivatives containing amide groups. <i>Science of the Total Environment</i> , 2020, 710, 136361.	8.0	31
17	Synthesis and evaluation of acrylate resins suspending indole derivative structure in the side chain for marine antifouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110518.	5.0	29
18	Power Generation, Evaporation Mitigation, and Thermal Insulation of Semitransparent Polymer Solar Cells: A Potential for Floating Photovoltaic Applications. <i>ACS Applied Energy Materials</i> , 2019, 2, 6060-6070.	5.1	28

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19	Synthesis of amide derivatives containing capsaicin and their antioxidant and antibacterial activities. <i>Journal of Food Biochemistry</i> , 2019, 43, e13061.	2.9	28
20	Recent advances of nanomedicine-based strategies in diabetes and complications management: Diagnostics, monitoring, and therapeutics. <i>Journal of Controlled Release</i> , 2021, 330, 618-640.	9.9	28
21	Synergistic solar-powered water-electricity generation via rational integration of semitransparent photovoltaics and interfacial steam generators. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21197-21208.	10.3	28
22	Metal free benzothiadiazole-diketopyrrolopyrrole-based conjugated polymer/g-C ₃ N ₄ photocatalyst for enhanced sterilization and degradation in visible to near-infrared region. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 103-113.	9.4	27
23	The rambutan-like C@NiCo ₂ O ₄ composites for enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3124-3136.	2.2	26
24	Microwave absorption by watermelon-like microspheres composed of β -Fe ₂ O ₃ , microporous silica and polypyrrole. <i>Journal of Materials Science</i> , 2018, 53, 9635-9649.	3.7	25
25	Synergistic effects of copolymerization and fluorination on acceptor polymers for efficient and stable all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14130-14140.	5.5	24
26	Sustained Release Systems for Delivery of Therapeutic Peptide/Protein. <i>Biomacromolecules</i> , 2021, 22, 2299-2324.	5.4	24
27	Dealing with MDR bacteria and biofilm in the post-antibiotic era: Application of antimicrobial peptides-based nano-formulation. <i>Materials Science and Engineering C</i> , 2021, 128, 112318.	7.3	24
28	Microwave absorption properties of β -Fe ₂ O ₃ /(SiO ₂) x SO ₃ H/polypyrrole core/shell/shell microspheres. <i>Journal of Materials Science</i> , 2018, 53, 5270-5286.	3.7	23
29	Application of nanotechnology in acute kidney injury: From diagnosis to therapeutic implications. <i>Journal of Controlled Release</i> , 2021, 336, 233-251.	9.9	23
30	High-performance electromagnetic wave absorption of NiCoFe/N-doped carbon composites with a Prussian blue analog (PBA) core at 2-18 GHz. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 107-118.	9.4	22
31	The morphology dependence of cuprous oxide and its photocatalytic properties. <i>CrystEngComm</i> , 2013, 15, 10049.	2.6	21
32	Lysozyme as a recognition element for monitoring of bacterial population. <i>Talanta</i> , 2016, 146, 299-302.	5.5	21
33	Large scale production of polyacrylonitrile-based porous carbon nanospheres for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6891-6903.	10.3	21
34	Stable Pb ²⁺ ion-selective electrodes based on polyaniline-TiO ₂ solid contacts. <i>Analytica Chimica Acta</i> , 2020, 1094, 26-33.	5.4	21
35	Hygroscopic photothermal beads from marine polysaccharides: demonstration of efficient atmospheric water production, indoor humidity control and photovoltaic panel cooling. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8556-8567.	10.3	20
36	Synthesis and antifouling evaluation of indole derivatives. <i>Ecotoxicology and Environmental Safety</i> , 2019, 182, 109423.	6.0	19

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37	Synthesis and solution behavior of hydrophobically associating polyacrylamide containing capsaicin-like moieties. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1794-1804.	2.6	18
38	Efficient photocatalysts from polymorphic cuprous oxide/zinc oxide microstructures. <i>RSC Advances</i> , 2015, 5, 11917-11924.	3.6	17
39	Synthesis and microwave absorbing properties of $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{poly}(3,4\text{-ethylenedioxythiophene})$ core-shell-shell nanocomposites. <i>Journal of Materials Science</i> , 2017, 52, 12358-12369.	3.7	17
40	Recent advancements of nanomaterial-based therapeutic strategies toward sepsis: bacterial eradication, anti-inflammation, and immunomodulation. <i>Nanoscale</i> , 2021, 13, 10726-10747.	5.6	17
41	Thiophene copolymer for 1 V high open-circuit voltage semitransparent photovoltaic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10868-10875.	5.5	15
42	In situ self-template synthesis of cobalt/nitrogen-doped nanocarbons with controllable shapes for oxygen reduction reaction and supercapacitors. <i>International Journal of Energy Research</i> , 2019, 43, 4217-4228.	4.5	15
43	Novel three-dimensional $\text{TiO}_2\text{-Fe}_3\text{O}_4/\text{polypyrrole}$ composites with tunable microwave absorption in the 2-40 GHz frequency range. <i>Journal of Materials Science</i> , 2020, 55, 15493-15509.	3.7	15
44	Rare-Earth Metal-Organic Framework@Graphene Oxide Composites As High-Efficiency Microwave Absorbents. <i>Crystal Growth and Design</i> , 2021, 21, 2668-2679.	3.0	15
45	Innovations and challenges of polyphenol-based smart drug delivery systems. <i>Nano Research</i> , 2022, 15, 8156-8184.	10.4	15
46	Synthesis of $\text{Fe}_2\text{O}_3/\text{SiO}_2/\text{polypyrrole}$ core/shell/shell nanospheres with flexible controllability of electromagnetic properties. <i>RSC Advances</i> , 2016, 6, 6623-6630.	3.6	13
47	Ester-Substituted Pentathiophene Copolymer-Based Sky-Blue Semitransparent Solar Cells for Building Windows. <i>ACS Applied Energy Materials</i> , 2020, 3, 915-922.	5.1	13
48	Design of Double Network Click Gels for Self-Contained Underwater Adhesion and Energy-Wise Applications in Floating Photovoltaics. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	13
49	Synthesis and Quantum Chemical Calculation of Benzamide Derivatives Containing Capsaicin and Their Bacteriostatic and Antifouling Properties. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 861-870.	1.4	12
50	Synthesis and properties of an acrylamide-based polymer for enhanced oil recovery: A preliminary study. <i>Advances in Polymer Technology</i> , 2018, 37, 2763-2773.	1.7	12
51	Addition of $2\text{D Ti}_3\text{C}_2\text{T}_x$ to Enhance Photocurrent in Diodes for High-Efficiency Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100127.	5.8	12
52	Revealing the mechanisms of mercury adsorption on metal-doped kaolinite(001) surfaces by first principles. <i>Journal of Hazardous Materials</i> , 2022, 431, 128586.	12.4	12
53	Synthesis, algal inhibition activities and QSAR studies of novel gramine compounds containing ester functional groups. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 309-316.	0.7	11
54	Hydrophobically associating polyacrylamide derivatives with double bond for enhanced solution properties. <i>Polymer Engineering and Science</i> , 2016, 56, 1203-1212.	3.1	11

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55	Enhancing organic photovoltaic performance with 3D-transport dual nonfullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1948-1955.	10.3	11
56	The Advancement of Gas-Generating Nanoplatfoms in Biomedical Fields: Current Frontiers and Future Perspectives. <i>Small Methods</i> , 2022, 6, e2200139.	8.6	11
57	Investigation of polyacrylamide containing capsaicin monomer as a novel corrosion inhibitor for mild steel in hydrochloric acid. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1095-1103.	1.5	10
58	Investigation of a hydrophobically associating AMAHS polyacrylamides: A new corrosion inhibitor for mild steel in HCl. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1521-1532.	1.5	10
59	A novel metal-organic framework derived carbon nanoflower with effective electromagnetic microwave absorption and high-performance electrochemical energy storage properties. <i>Chemical Communications</i> , 2021, 57, 2539-2542.	4.1	10
60	Highly Dual Antifouling and Antibacterial Ultrafiltration Membranes Modified with Silane Coupling Agent and Capsaicin-Mimic Moieties. <i>Polymers</i> , 2020, 12, 412.	4.5	10
61	Synthesis, Crystal Structure, and Theoretical Calculation of the Cu(II) Complex With 1,2-Benzisothiazolin-3-one. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 659-664.	0.6	9
62	Semitransparent polymer solar cells floating on water: selected transmission windows and active control of algal growth. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13132-13143.	5.5	8
63	Preparation and Evaluation of Gallate Ester Derivatives Used as Promising Antioxidant and Antibacterial Inhibitors. <i>Chemistry and Biodiversity</i> , 2021, 18, e2000913.	2.1	8
64	Hydrogel Antifouling Coating with Highly Adhesive Ability via Lipophilic Monomer. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	8
65	Adsorption mechanism of water molecule on goethite (010) surface. <i>Journal of Ocean University of China</i> , 2016, 15, 1021-1026.	1.2	7
66	Anticorrosion Coatings from Poly (Aniline-co-2-Ethylaniline) Micro/Nanostructures. <i>Journal of Ocean University of China</i> , 2019, 18, 1371-1381.	1.2	6
67	Multicomponent supramolecular assemblies of 1(2H)-Phthalazinone and Tetrafluoroterephthalic acid: Understanding the role of hydrogen bonding on the structure and properties using experimental and computational analyses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117689.	3.9	6
68	Low surface energy self-polishing polymer grafted MWNTs for antibacterial coating and controlled-release property of Cu ₂ O. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50267.	2.6	6
69	Dependable Performance of Thin Film Composite Nanofiltration Membrane Tailored by Capsaicin-Derived Self-Polymer. <i>Polymers</i> , 2022, 14, 1671.	4.5	5
70	Stable Pb(II) ion-selective electrodes with a low detection limit using silver nanoparticles/polyaniline as the solid contact. <i>Mikrochimica Acta</i> , 2021, 188, 393.	5.0	4
71	High-Performance Ternary Semitransparent Polymer Solar Cells with Different Bandgap Third Component as Non-Fullerene Guest Acceptor. <i>Solar Rrl</i> , 2022, 6, .	5.8	4
72	Synthesis, Crystal Structure, and Theoretical Calculation of the Cu (II) Complex With 2-Furoic Acid. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 1054-1058.	0.6	3

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73	Fusing Benzo[c][1,2,5]oxadiazole Unit with Thiophene for Constructing Wide-bandgap High-performance IDT-based Polymer Solar Cell Donor Material. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700782.	3.9	3
74	The tesseract in two dimensional materials, a DFT approach. <i>RSC Advances</i> , 2020, 10, 8618-8627.	3.6	3
75	Kinetic control of Phytic acid/Lixisenatide/Fe (III) ternary nanoparticles assembly process for sustained peptide release. <i>International Journal of Pharmaceutics</i> , 2022, 611, 121317.	5.2	3
76	Lipophilic monomer tackifying hydrogel antifouling coatings prepared by soap free emulsion polymerization and its performance. <i>Progress in Organic Coatings</i> , 2022, 165, 106724.	3.9	3
77	Preparation and evaluation of polyphenol derivatives as potent antifouling agents: addition of a side chain affects the biological activity of polyphenols. <i>Biofouling</i> , 2022, 38, 29-41.	2.2	3
78	Hollow polypyrrole/Ni/PVDF microspheres for broadband microwave absorption via a spray phase inversion method. <i>Journal of Materials Science</i> , 2022, 57, 7570-7586.	3.7	3
79	Synthesis of luminescent cocrystals based on fluoranthene and the analysis of weak interactions and photophysical properties. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 551-560.	0.5	2
80	Enhanced anticorrosion properties of epoxy coatings from Al and Zn based pigments. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 573-580.	2.6	1
81	Template effect of hydrophobically associating polymers on the construction of cuprous oxide micro structure. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 138-144.	2.6	1
82	DFT and 3D-QSAR Studies of Anti-Cancer Agents m-(4-Morpholinoquinazolin-2-yl) Benzamide Derivatives for Novel Compounds Design. <i>Journal of Ocean University of China</i> , 2018, 17, 609-613.	1.2	1
83	Roles played by polysaccharides with different structures in biomimetic synthesis of cuprous oxide. <i>CrystEngComm</i> , 2018, 20, 6243-6251.	2.6	0