

Qian Ye

List of Publications by Year in descending order

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84
papers

4,764
citations

94433

37
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95266

68
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87
all docs

87
docs citations

87
times ranked

6703
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired catecholic chemistry for surface modification. <i>Chemical Society Reviews</i> , 2011, 40, 4244.	38.1	1,067
2	From unstable CsSnI ₃ to air-stable Cs ₂ SnI ₆ : A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 227-234.	6.2	388
3	Robust polydopamine nano/microcapsules and their loading and release behavior. <i>Chemical Communications</i> , 2009, , 6789.	4.1	195
4	Modification of carbon nanotubes with a nanothin polydopamine layer and polydimethylamino-ethyl methacrylate brushes. <i>Carbon</i> , 2010, 48, 2347-2353.	10.3	172
5	Template-Free and Direct Electrochemical Deposition of Hierarchical Dendritic Gold Microstructures: Growth and Their Multiple Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15617-15624.	3.1	167
6	Fluorinated, Sulfur-Rich, Covalent Triazine Frameworks for Enhanced Confinement of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37731-37738.	8.0	164
7	Surface & grain boundary co-passivation by fluorocarbon based bifunctional molecules for perovskite solar cells with efficiency over 21%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2497-2506.	10.3	141
8	Switching Water Droplet Adhesion Using Responsive Polymer Brushes. <i>Langmuir</i> , 2010, 26, 12377-12382.	3.5	114
9	Tapping the Potential of Polymer Brushes through Synthesis. <i>Accounts of Chemical Research</i> , 2015, 48, 229-237.	15.6	107
10	Grafting poly(ionic liquid) brushes for anti-bacterial and anti-biofouling applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 13123.	6.7	104
11	Superamphiphobic coatings with coralline-like structure enabled by one-step spray of polyurethane/carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 9624.	6.7	96
12	Surface-Initiated Ring-Opening Metathesis Polymerization of Pentadecafluorooctyl-5-norbornene-2-carboxylate from Variable Substrates Modified with Sticky Biomimic Initiator. <i>Macromolecules</i> , 2010, 43, 5554-5560.	4.8	88
13	Grafting Polymer Brushes on Biomimetic Structural Surfaces for Anti-Algae Fouling and Foul Release. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4557-4565.	8.0	77
14	Grafting zwitterionic polymer brushes via electrochemical surface-initiated atomic-transfer radical polymerization for anti-fouling applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5352-5357.	5.8	75
15	Grafting Robust Thick Zwitterionic Polymer Brushes via Subsurface-Initiated Ring-Opening Metathesis Polymerization for Antimicrobial and Anti-Biofouling. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39171-39178.	8.0	66
16	Polyelectrolyte Brush Templated Multiple Loading of Pd Nanoparticles onto TiO ₂ Nanowires via Regenerative Counterion Exchange ⁺ Reduction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7677-7683.	3.1	64
17	Interfacial Embedding of Laser-Manufactured Fluorinated Gold Clusters Enabling Stable Perovskite Solar Cells with Efficiency Over 24%. <i>Advanced Materials</i> , 2021, 33, e2101590.	21.0	62
18	The Weak Interaction of Surfactants with Polymer Brushes and Its Impact on Lubricating Behavior. <i>Macromolecules</i> , 2015, 48, 6186-6196.	4.8	61

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19	Double Barriers for Moisture Degradation: Assembly of Hydrolysable Hydrophobic Molecules for Stable Perovskite Solar Cells with High Open-Circuit Voltage. <i>Advanced Functional Materials</i> , 2020, 30, 2002639.	14.9	61
20	Normalized Lithium Growth from the Nucleation Stage for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18246-18251.	13.8	60
21	Antifouling on Gecko's Feet Inspired Fibrillar Surfaces: Evolving from Land to Marine and from Liquid Repellency to Algae Resistance. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500257.	3.7	56
22	Self-healing polydimethylsiloxane antifouling coatings based on zwitterionic polyethylenimine-functionalized gallium nanodroplets. <i>Chemical Engineering Journal</i> , 2022, 427, 131019.	12.7	56
23	New Self-Healing Triboelectric Nanogenerator Based on Simultaneous Repair Friction Layer and Conductive Layer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30390-30398.	8.0	53
24	Synchronous Passivation of Defects with Low Formation Energies via Terdentate Anchoring Enabling High Performance Perovskite Solar Cells with Efficiency over 24%. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	52
25	Nitrogen-Phosphorus Codoped Carbon Nanospheres as Lubricant Additives for Antiwear and Friction Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 5362-5371.	5.0	50
26	Dialkyl Dithiophosphate-Functionalized Ti ₃ C ₂ T _x MXene Nanosheets as Effective Lubricant Additives for Antiwear and Friction Reduction. <i>ACS Applied Nano Materials</i> , 2021, 4, 11080-11087.	5.0	49
27	Laser-Generated Supranano Liquid Metal as Efficient Electron Mediator in Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2001571.	21.0	46
28	Self-Assembly of Catecholic Macroinitiator on Various Substrates and Surface-Initiated Polymerization. <i>Langmuir</i> , 2012, 28, 2574-2581.	3.5	44
29	CdS/CdSe quantum dot co-sensitized graphene nanocomposites via polymer brush templated synthesis for potential photovoltaic applications. <i>Nanoscale</i> , 2012, 4, 2109.	5.6	42
30	Laser-Generated Nanocrystals in Perovskite: Universal Embedding of Ligand-Free and Sub-10 nm Nanocrystals in Solution-Processed Metal Halide Perovskite Films for Effectively Modulated Optoelectronic Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1901341.	19.5	42
31	Enhanced lubricity and anti-wear performance of zwitterionic polymer-modified N-enriched porous carbon nanosheets as water-based lubricant additive. <i>Tribology International</i> , 2022, 167, 107421.	5.9	42
32	Towards chemically bonded p-n heterojunctions through surface initiated electrodeposition of p-type conducting polymer inside TiO ₂ nanotubes. <i>Journal of Materials Chemistry</i> , 2010, 20, 6910.	6.7	41
33	Dialkyl Dithiophosphate-Functionalized Gallium-Based Liquid-Metal Nanodroplets as Lubricant Additives for Antiwear and Friction Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 10115-10122.	5.0	40
34	A general approach for construction of asymmetric modification membranes for gated flow nanochannels. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8804-8814.	10.3	39
35	Fabrication of Two-Dimensional Functional Covalent Organic Frameworks <i>via</i> the Thiol-Ene "Click" Reaction as Lubricant Additives for Antiwear and Friction Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36213-36220.	8.0	39
36	Responsive wetting transition on superhydrophobic surfaces with sparsely grafted polymer brushes. <i>Soft Matter</i> , 2011, 7, 515-523.	2.7	38

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37	Excellent tribological and anti-corrosion performances enabled by novel hollow graphite carbon nanosphere with controlled release of corrosion inhibitor. <i>Chemical Engineering Journal</i> , 2021, 412, 128648.	12.7	38
38	Recent Advanced on the MXene“Organic Hybrids: Design, Synthesis, and Their Applications. <i>Nanomaterials</i> , 2021, 11, 166.	4.1	38
39	Nitrogen-doped porous carbon nanospheres derived from hyper-crosslinked polystyrene as lubricant additives for friction and wear reduction. <i>Tribology International</i> , 2022, 169, 107458.	5.9	36
40	Multiscale hairy surfaces for nearly perfect marine antibiofouling. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3599.	5.8	34
41	Activating a Semiconductor“Liquid Junction via Laser“Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2201140.	21.0	34
42	Low surface energy surfaces from self-assembly of perfluoropolymer with sticky functional groups. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 261-266.	9.4	33
43	Functionalized Ti ₃ C ₂ T _x -based nanocomposite coatings for anticorrosion and antifouling applications. <i>Chemical Engineering Journal</i> , 2022, 448, 137668.	12.7	32
44	Polymer brushes on structural surfaces: a novel synergistic strategy for perfectly resisting algae settlement. <i>Biomaterials Science</i> , 2017, 5, 2493-2500.	5.4	26
45	Ga-based liquid metal with good self-lubricity and high load-carrying capacity. <i>Tribology International</i> , 2019, 129, 1-4.	5.9	26
46	Grafting polymer brushes on graphene oxide for controlling surface charge states and templated synthesis of metal nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3074-3083.	2.6	25
47	Probing the lubricative behaviors of a high MXene-content epoxy-based composite under dry sliding. <i>Tribology International</i> , 2022, 165, 107314.	5.9	25
48	Acetate-Based Crystallization Kinetics Modulation of CsPbI ₂ Br for Improved Photovoltaic Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 658-665.	5.1	21
49	Wet-Chemical Synthesis of Surface-Passivated Halide Perovskite Microwires for Improved Optoelectronic Performance and Stability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43850-43856.	8.0	20
50	Contact printing a biomimetic catecholic monolayer on a variety of surfaces and derivation reaction. <i>Chemical Communications</i> , 2012, 48, 398-400.	4.1	19
51	Promoting the Water“Reduction Kinetics and Alkali Tolerance of MoNi ₄ Nanocrystals via a Mo ₂ Ti ₂ Ti _x Induced Built“n Electric Field. <i>Small</i> , 2022, 18, e2107541.	10.0	19
52	Embedding of WO ₃ nanocrystals with rich oxygen-vacancies in solution processed perovskite film for improved photovoltaic performance. <i>Journal of Power Sources</i> , 2020, 461, 228175.	7.8	17
53	Polymer brushes assisted loading of high density CdS/CdSe quantum dots onto TiO ₂ nanotubes and the resulting photoelectric performance. <i>RSC Advances</i> , 2012, 2, 3978.	3.6	16
54	Grain“Boundaries“Engineering via Laser Manufactured La“Doped BaSnO ₃ Nanocrystals with Tailored Surface States Enabling Perovskite Solar Cells with Efficiency of 23.74%. <i>Advanced Functional Materials</i> , 2022, 32, 2112388.	14.9	16

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55	Fabrication of polyelectrolyte brush-functionalized two-dimensional covalent organic frameworks as additives for aqueous lubricants. <i>Tribology International</i> , 2022, 174, 107737.	5.9	16
56	Step-by-step build-up of ordered p-n heterojunctions at nanoscale for efficient light harvesting. <i>RSC Advances</i> , 2013, 3, 166-171.	3.6	14
57	Embedding of Ti ₃ C ₂ T _x Nanocrystals in MAPbI ₃ Microwires for Improved Responsivity and Detectivity of Photodetector. <i>Small</i> , 2021, 17, e2101954.	10.0	14
58	Surface Passivation with a Fluorocarbon-Based Pyridine Derivative for High-Crystallinity Perovskite Solar Cells with Efficiency Over 20% and Good Humidity Stability. <i>ACS Applied Energy Materials</i> , 2021, 4, 10484-10492.	5.1	14
59	Grafting embedded poly(ionic liquid) brushes on biomimetic sharklet resin surface for anti-biofouling applications. <i>Progress in Organic Coatings</i> , 2021, 157, 106298.	3.9	12
60	Grafting Binary PEG and Fluoropolymer Brushes from Mix-Biomimic Initiator as "Ambiguous" Surfaces for Antibiofouling. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700085.	2.2	11
61	Superior Lubricity and Antiwear Performances Enabled by Porous Carbon Nanospheres with Different Shell Microstructures. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	11
62	Self-healable transparent polymer/salt hybrid adhesive via a ternary bonding effect. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21812-21823.	10.3	11
63	Durable self-polishing antifouling coating based on fluorine-containing pyrrolidone amphiphilic copolymer-functionalized nanosilica. <i>Progress in Organic Coatings</i> , 2022, 165, 106706.	3.9	11
64	Fabrication of binary components based on a poly(ionic liquid) through "grafting" and "clicking" and their synergistic antifouling activity. <i>RSC Advances</i> , 2015, 5, 100347-100353.	3.6	10
65	Self-assembly of catecholic ferrocene and electrochemical behavior of its monolayer. <i>RSC Advances</i> , 2015, 5, 60090-60095.	3.6	10
66	Novel Anticorrosion Property of Organic Coating Based on Liquid Metal. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900942.	3.7	10
67	Normalized Lithium Growth from the Nucleation Stage for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2019, 131, 18414-18419.	2.0	10
68	Effects of Thickness and Grafting Density on the Activity of Polymer-Brush-Immobilized Tris(triazolyl) Copper(I) Catalysts. <i>ChemCatChem</i> , 2015, 7, 856-864.	3.7	9
69	Polydimethylsiloxane-Assisted Catalytic Printing for Highly Conductive, Adhesive, and Precise Metal Patterns Enabled on Paper and Textiles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56597-56606.	8.0	9
70	Electrodeposition of mesoporous Ni-Mo-O composite films for hydrogen evolution reaction. <i>Vacuum</i> , 2022, 198, 110888.	3.5	9
71	Antifouling Surfaces Based on Polymer Brushes. , 2015, , 55-81.		8
72	Fusion and alloying of (bi)metallic nanocrystals onto TiO ₂ nanowires in the presence of surface grafted polymer brushes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5480.	2.8	7

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73	Bifunctional Interfacial Modification Engineering with Biomimetic Perfluoro-Copolymer-Enabled High-Efficiency and Moisture-Resistant Perovskite Solar Cells. ACS Applied Electronic Materials, 2021, 3, 238-247.	4.3	6
74	Bioinspired zwitterionic dopamine-functionalized liquid-metal nanodroplets for antifouling application. Progress in Organic Coatings, 2022, 169, 106922.	3.9	6
75	Surface defect passivation of Ta ₃ N ₅ photoanode via pyridine grafting for enhanced photoelectrochemical performance. Journal of Chemical Physics, 2020, 153, 024705.	3.0	5
76	A novel way towards CdS sensitized TiO ₂ nanoparticles. Chinese Chemical Letters, 2010, 21, 1003-1006.	9.0	2
77	Bi-quantum dots co-sensitized TiO ₂ nanocomposites: Templated synthesis and stabilized by polymer brushes. Materials Chemistry and Physics, 2012, 134, 966-972.	4.0	2
78	Antifouling of Micro-/Nanostructural Surfaces. , 2015, , 83-103.		2
79	The electrostatic self-assembly of microgels on polymer brushes and its effects on interfacial friction. Journal of Applied Polymer Science, 2016, 133, .	2.6	2
80	Polyelectrolyte brushes as efficient platform for synthesis of Cu and Pt bimetallic nanocrystals onto TiO ₂ nanowires. Surface and Interface Analysis, 2017, 49, 904-909.	1.8	2
81	Embedding laser generated GaAs nanocrystals in perovskite wires for enhanced charge transport and photodetection. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	1
82	Synthesis and Properties of Low-surface-energy Polyimides. Chemistry Letters, 2014, 43, 1926-1928.	1.3	0
83	Hydrolyzable Hydrophobic Molecules: Double Barriers for Moisture Degradation: Assembly of Hydrolysable Hydrophobic Molecules for Stable Perovskite Solar Cells with High Open-Circuit Voltage (Adv. Funct. Mater. 28/2020). Advanced Functional Materials, 2020, 30, 2070189.	14.9	0
84	Interfacial Embedding of Laser-Manufactured Fluorinated Gold Clusters Enabling Stable Perovskite Solar Cells with Efficiency Over 24% (Adv. Mater. 36/2021). Advanced Materials, 2021, 33, 2170285.	21.0	0