Hua Wang

List of Publications by Year
in descending order

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81 papers	5,251 citations	126907 33 h-index	85541 71 g-index
82 all docs	82 docs citations	82 times ranked	8060 citing authors

#	Article	IF	Citations
1	Copperâ€based nanomaterials for cancer theranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1797.	6.1	26
2	Chemomechanical Interactions Dictate Lithium Surface Diffusion Kinetics in the Solid Electrolyte Interphase. Langmuir, 2022, 38, 5472-5480.	3.5	8
3	Targeting tumor extracellular matrix activates the tumor-draining lymph nodes. Cancer Immunology, Immunotherapy, 2022, 71, 2957-2968.	4.2	6
4	Nonlinear Optical and Photocurrent Responses in Janus MoSSe Monolayer and MoS₂â€“MoSSe van der Waals Heterostructure. Nano Letters, 2022, 22, 4145-4152.	9.1	25
5	Recyclable cell-surface chemical tags for repetitive cancer targeting. Journal of Controlled Release, 2022, 347, 164-174.	9.9	1
6	Abnormal nonlinear optical responses on the surface of topological materials. Npj Computational Materials, 2022, 8, .	8.7	6
7	Materialsâ€based vaccines for infectious diseases. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, .	6.1	4
8	Generalized Wilson loop method for nonlinear light-matter interaction. Npj Quantum Materials, 2022, 7, .	5.2	10
9	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	10.0	3
10	Nonlinear nonreciprocal photocurrents under phonon dressing. Physical Review B, 2022, 106, .	3.2	3
11	Complex Dirac-like Electronic Structure in Atomic Site-Ordered Rh₃In_{3.4}Ge_{3.6}. Chemistry of Materials, 2021, 33, 1218-1227.	6.7	1
12	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. Npj Computational Materials, 2021, 7, .	8.7	27
13	Interfacial Superconductivity Achieved in Parent AEFe₂As₂ (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. Nano Letters, 2021, 21, 2191-2198.	9.1	5
14	Enhanced Superconductivity in Monolayer T_d-MoTe₂. Nano Letters, 2021, 21, 2505-2511.	9.1	49
15	CBZ6 as a Recyclable Organic Photoreductant for Pinacol Coupling. Organic Letters, 2021, 23, 2900-2903.	4.6	23
16	Light-induced static magnetization: Nonlinear Edelstein effect. Physical Review B, 2021, 103, .	3.2	11
17	Viscoelastic surface electrode arrays to interface with viscoelastic tissues. Nature Nanotechnology, 2021, 16, 1019-1029.	31.5	144
18	Ultralow Resistance Twoâ€Stage Electrostatically Assisted Air Filtration by Polydopamine Coated PET Coarse Filter. Small, 2021, 17, e2102051.	10.0	40

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19	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. Nature Communications, 2021, 12, 4330.	12.8	51
20	Reusable Polyacrylonitrileâ€Sulfur Extractor of Heavy Metal Ions from Wastewater. Advanced Functional Materials, 2021, 31, 2105845.	14.9	20
21	Ultralow Resistance Twoâ€Stage Electrostatically Assisted Air Filtration by Polydopamine Coated PET Coarse Filter (Small 33/2021). Small, 2021, 17, 2170172.	10.0	1
22	Resilient Poly(Î±-hydroxy acids) with Improved Strength and Ductility via Scalable Stereosequence-Controlled Polymerization. Journal of the American Chemical Society, 2021, 143, 16813-16823.	13.7	21
23	Emergence of bulk photovoltaic effect in anion-ordered perovskite sulfur diiodide MASbSI2 with spontaneous out-of-plane ferroelectricity. Materials Today Physics, 2021, 21, 100459.	6.0	4
24	Reusable Polyacrylonitrileâ€Sulfur Extractor of Heavy Metal Ions from Wastewater (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.9	5
25	Clickable, acid labile immunosuppressive prodrugs forin vivotargeting. Biomaterials Science, 2020, 8, 266-277.	5.4	16
26	Giant Photonic Response of Mexican-Hat Topological Semiconductors for Mid-infrared to Terahertz Applications. Journal of Physical Chemistry Letters, 2020, 11, 6119-6126.	4.6	18
27	Metabolic glycan labelling for cancer-targeted therapy. Nature Chemistry, 2020, 12, 1102-1114.	13.6	101
28	Immune Cell Homing Biomaterials for Immunotherapy. Accounts of Materials Research, 2020, 1, 172-174.	11.7	5
29	Biomaterial-based scaffold for in situ chemo-immunotherapy to treat poorly immunogenic tumors. Nature Communications, 2020, 11, 5696.	12.8	99
30	Perovskiteâ€Derivative Valleytronics. Advanced Materials, 2020, 32, e2004111.	21.0	19
31	P857â€…ONM-500 â€“ a novel STING-activating therapeutic nanovaccine platform for cancer immunotherapy. , 2020, , .		1
32	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. Journal of the American Chemical Society, 2020, 142, 17499-17507.	13.7	80
33	Electrically tunable high Curie temperature two-dimensional ferromagnetism in van der Waals layered crystals. Applied Physics Letters, 2020, 117, .	3.3	74
34	A Surface Seâ€Substituted LiCo[O_{2â^'}_{Î´}Se_{Î´}] Cathode with Ultrastable Highâ€Voltage Cycling in Pouch Fullâ€Cells. Advanced Materials, 2020, 32, e2005182.	21.0	110
35	Metabolic labeling and targeted modulation of dendritic cells. Nature Materials, 2020, 19, 1244-1252.	27.5	99
36	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	16.7	100

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37	Correlations and incipient antiferromagnetic order within the linear Mn chains of metallic Ti4MnBi2. Physical Review B, 2020, 102, .	3.2	6
38	Recent progress in C(aryl)â€“C(alkyl) bond cleavage of alkylarenes. Organic Chemistry Frontiers, 2020, 7, 896-904.	4.5	15
39	Photocarrierâ€Induced Active Control of Secondâ€Order Optical Nonlinearity in Monolayer MoS₂. Small, 2020, 16, e1906347.	10.0	24
40	Overcoming Electron-Withdrawing and Product-Inhibition Effects by Organocatalytic Aerobic Oxidation of Alkylpyridines and Related Alkylheteroarenes to Ketones. Journal of Organic Chemistry, 2020, 85, 3942-3948.	3.2	22
41	Electrically and magnetically switchable nonlinear photocurrent in ĐĐ¢-symmetric magnetic topological quantum materials. Npj Computational Materials, 2020, 6, .	8.7	43
42	Azido-galactose outperforms azido-mannose for metabolic labeling and targeting of hepatocellular carcinoma. Biomaterials Science, 2019, 7, 4166-4173.	5.4	19
43	Ferroicity-driven nonlinear photocurrent switching in time-reversal invariant ferroic materials. Science Advances, 2019, 5, eaav9743.	10.3	62
44	In vivo cancer targeting via glycopolyester nanoparticle mediated metabolic cell labeling followed by click reaction. Biomaterials, 2019, 218, 119305.	11.4	35
45	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. Crystal Growth and Design, 2019, 19, 7088-7095.	3.0	6
46	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	8
47	Cleavage of C(aryl)â^'CH 3 Bonds in the Absence of Directing Groups under Transition Metal Free Conditions. Angewandte Chemie, 2019, 131, 5446-5449.	2.0	6
48	Cleavage of C(aryl)â^'CH₃ Bonds in the Absence of Directing Groups under Transition Metal Free Conditions. Angewandte Chemie - International Edition, 2019, 58, 5392-5395.	13.8	33
49	Ferroelectric nonlinear anomalous Hall effect in few-layer WTe2. Npj Computational Materials, 2019, 5, .	8.7	61
50	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4652-4656.	13.8	28
51	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie, 2018, 130, 4742-4746.	2.0	7
52	A caged metabolic precursor for DT-diaphorase-responsive cell labeling. Chemical Communications, 2018, 54, 4878-4881.	4.1	18
53	Facile preparation of novel Fe2O3/BiOI hybrid nanostructures for efficient visible light photocatalysis. Journal of Materials Science, 2018, 53, 3682-3691.	3.7	24
54	Light-Induced Activation of Forbidden Exciton Transition in Strongly Confined Perovskite Quantum Dots. ACS Nano, 2018, 12, 12436-12443.	14.6	86

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55	Two-dimensional multiferroic semiconductors with coexisting ferroelectricity and ferromagnetism. Applied Physics Letters, 2018, 113, .	3.3	114
56	Biomaterial-assisted targeted modulation of immune cells in cancer treatment. Nature Materials, 2018, 17, 761-772.	27.5	352
57	Two-dimensional multiferroics in monolayer group IV monochalcogenides. 2D Materials, 2017, 4, 015042.	4.4	275
58	Selective in vivo metabolic cell-labeling-mediated cancer targeting. Nature Chemical Biology, 2017, 13, 415-424.	8.0	274
59	A STING-activating nanovaccine for cancer immunotherapy. Nature Nanotechnology, 2017, 12, 648-654.	31.5	649
60	Facile Synthesis of Fe₃O₄@BiOI Core/Shell Nanostructures by Magnetic-Assisted Successive Ionic Layer Adsorption and Reaction for Catalytic Application. Journal of Nanoscience and Nanotechnology, 2017, 17, 3759-3764.	0.9	7
61	van der Waals Stacking-Induced Topological Phase Transition in Layered Ternary Transition Metal Chalcogenides. Nano Letters, 2017, 17, 467-475.	9.1	67
62	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. Nature Communications, 2017, 8, 339.	12.8	304
63	Nonconventional Fluorescent Polynorbornenes Bearing Aminosuccinimide Side Groups. Macromolecular Chemistry and Physics, 2017, 218, 1700410.	2.2	4
64	Selective killing of Helicobacter pylori with pH-responsive helixâ€“coil conformation transitionable antimicrobial polypeptides. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12675-12680.	7.1	121
65	Giant Optical Second Harmonic Generation in Two-Dimensional Multiferroics. Nano Letters, 2017, 17, 5027-5034.	9.1	137
66	In Vivo Targeting of Metabolically Labeled Cancers with Ultra-Small Silica Nanoconjugates. Theranostics, 2016, 6, 1467-1476.	10.0	34
67	Targeted Ultrasoundâ€Assisted Cancerâ€Selective Chemical Labeling and Subsequent Cancer Imaging using Click Chemistry. Angewandte Chemie, 2016, 128, 5542-5546.	2.0	14
68	Targeted Ultrasoundâ€Assisted Cancerâ€Selective Chemical Labeling and Subsequent Cancer Imaging using Click Chemistry. Angewandte Chemie - International Edition, 2016, 55, 5452-5456.	13.8	76
69	Lithiumâ€“Boron (Liâ€“B) Monolayers: First-Principles Cluster Expansion and Possible Two-Dimensional Superconductivity. ACS Applied Materials & Interfaces, 2016, 8, 2526-2532.	8.0	49
70	CD44 Mediated Nonviral Gene Delivery into Human Embryonic Stem Cells via Hyaluronic-Acid-Coated Nanoparticles. ACS Biomaterials Science and Engineering, 2016, 2, 326-335.	5.2	28
71	Retaining Large and Adjustable Elastic Strains of Kilogram-Scale Nb Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 2917-2922.	8.0	21
72	Ruddlesdenâ€“Popper perovskite sulfides A3B2S7: A new family of ferroelectric photovoltaic materials for the visible spectrum. Nano Energy, 2016, 22, 507-513.	16.0	66

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73	Reduction-responsive dithiomaleimide-based nanomedicine with high drug loading and FRET-indicated drug release. Chemical Communications, 2015, 51, 4807-4810.	4.1	51
74	Synthesis and Biomedical Applications of Functional Poly(Î±-hydroxy acids) via Ring-Opening Polymerization of O-Carboxyanhydrides. Accounts of Chemical Research, 2015, 48, 1777-1787.	15.6	91
75	Non-invasive, real-time reporting drug release in vitro and in vivo. Chemical Communications, 2015, 51, 6948-6951.	4.1	51
76	Investigating the optimal size of anticancer nanomedicine. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15344-15349.	7.1	523
77	Redox-Responsive, Core-Cross-Linked Micelles Capable of On-Demand, Concurrent Drug Release and Structure Disassembly. Biomacromolecules, 2013, 14, 3706-3712.	5.4	160
78	Reversible and Multisensitive Quantum Dot Gels. Macromolecules, 2011, 44, 4306-4312.	4.8	24
79	Preparation of biocompatible nanocapsules with temperature-responsive and bioreducible properties. Journal of Materials Chemistry, 2011, 21, 15950.	6.7	26
80	Radiation miniemulsion polymerization system with HTPB or its derivative as the costabilizer. Colloid and Polymer Science, 2008, 286, 1039-1047.	2.1	2
81	Miniemulsion polymerization of styrene costabilized with polyurethane via 60Co Î³-ray radiation initiation. Colloid and Polymer Science, 2007, 285, 1093-1100.	2.1	8