Hua Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

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	A STING-activating nanovaccine for cancer immunotherapy. Nature Nanotechnology, 2017, 12, 648-654.	31.5	649
2	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
3	Biomaterial-assisted targeted modulation of immune cells in cancer treatment. Nature Materials, 2018, 17, 761-772.	27.5	352
4	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. Nature Communications, 2017, 8, 339.	12.8	304
5	Two-dimensional multiferroics in monolayer group IV monochalcogenides. 2D Materials, 2017, 4, 015042.	4.4	275
6	Selective in vivo metabolic cell-labeling-mediated cancer targeting. Nature Chemical Biology, 2017, 13, 415-424.	8.0	274
7	Redox-Responsive, Core-Cross-Linked Micelles Capable of On-Demand, Concurrent Drug Release and Structure Disassembly. Biomacromolecules, 2013, 14, 3706-3712.	5.4	160
8	Viscoelastic surface electrode arrays to interface with viscoelastic tissues. Nature Nanotechnology, 2021, 16, 1019-1029.	31.5	144
9	Giant Optical Second Harmonic Generation in Two-Dimensional Multiferroics. Nano Letters, 2017, 17, 5027-5034.	9.1	137
10	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
11	Two-dimensional multiferroic semiconductors with coexisting ferroelectricity and ferromagnetism. Applied Physics Letters, 2018, 113, .	3.3	114
12	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
13	Metabolic glycan labelling for cancer-targeted therapy. Nature Chemistry, 2020, 12, 1102-1114.	13.6	101
14	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	16.7	100
15	Biomaterial-based scaffold for in situ chemo-immunotherapy to treat poorly immunogenic tumors. Nature Communications, 2020, 11, 5696.	12.8	99
16	Metabolic labeling and targeted modulation of dendritic cells. Nature Materials, 2020, 19, 1244-1252.	27.5	99
17	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
18	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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19	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. Journal of the American Chemical Society, 2020, 142, 17499-17507.	13.7	80
20	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
21	Electrically tunable high Curie temperature two-dimensional ferromagnetism in van der Waals layered crystals. Applied Physics Letters, 2020, 117, .	3.3	74
22	van der Waals Stacking-Induced Topological Phase Transition in Layered Ternary Transition Metal Chalcogenides. Nano Letters, 2017, 17, 467-475.	9.1	67
23	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
24	Ferroicity-driven nonlinear photocurrent switching in time-reversal invariant ferroic materials. Science Advances, 2019, 5, eaav9743.	10.3	62
25	Ferroelectric nonlinear anomalous Hall effect in few-layer WTe2. Npj Computational Materials, 2019, 5, .	8.7	61
26	Reduction-responsive dithiomaleimide-based nanomedicine with high drug loading and FRET-indicated drug release. Chemical Communications, 2015, 51, 4807-4810.	4.1	51
27	Non-invasive, real-time reporting drug release in vitro and in vivo. Chemical Communications, 2015, 51, 6948-6951.	4.1	51
28	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. Nature Communications, 2021, 12, 4330.	12.8	51
29	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
30	Enhanced Superconductivity in Monolayer T_d-MoTe₂. Nano Letters, 2021, 21, 2505-2511.	9.1	49
31	Electrically and magnetically switchable nonlinear photocurrent in ÐÐ¢-symmetric magnetic topological quantum materials. Npj Computational Materials, 2020, 6, .	8.7	43
32	Ultralow Resistance Twoâ€Stage Electrostatically Assisted Air Filtration by Polydopamine Coated PET Coarse Filter. Small, 2021, 17, e2102051.	10.0	40
33	In vivo cancer targeting via glycopolyester nanoparticle mediated metabolic cell labeling followed by click reaction. Biomaterials, 2019, 218, 119305.	11.4	35
34	In Vivo Targeting of Metabolically Labeled Cancers with Ultra-Small Silica Nanoconjugates. Theranostics, 2016, 6, 1467-1476.	10.0	34
35	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
36	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

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37	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4652-4656.	13.8	28
38	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. Npj Computational Materials, 2021, 7, .	8.7	27
39	Preparation of biocompatible nanocapsules with temperature-responsive and bioreducible properties. Journal of Materials Chemistry, 2011, 21, 15950.	6.7	26
40	Copperâ€based nanomaterials for cancer theranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1797.	6.1	26
41	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
42	Reversible and Multisensitive Quantum Dot Gels. Macromolecules, 2011, 44, 4306-4312.	4.8	24
43	Facile preparation of novel Fe2O3/BiOI hybrid nanostructures for efficient visible light photocatalysis. Journal of Materials Science, 2018, 53, 3682-3691.	3.7	24
44	Photocarrierâ€Induced Active Control of Secondâ€Order Optical Nonlinearity in Monolayer MoS₂. Small, 2020, 16, e1906347.	10.0	24
45	CBZ6 as a Recyclable Organic Photoreductant for Pinacol Coupling. Organic Letters, 2021, 23, 2900-2903.	4.6	23
46	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
47	Retaining Large and Adjustable Elastic Strains of Kilogram-Scale Nb Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 2917-2922.	8.0	21
48	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
49	Reusable Polyacrylonitrileâ€Sulfur Extractor of Heavy Metal Ions from Wastewater. Advanced Functional Materials, 2021, 31, 2105845.	14.9	20
50	Azido-galactose outperforms azido-mannose for metabolic labeling and targeting of hepatocellular carcinoma. Biomaterials Science, 2019, 7, 4166-4173.	5.4	19
51	Perovskiteâ€Derivative Valleytronics. Advanced Materials, 2020, 32, e2004111.	21.0	19
52	A caged metabolic precursor for DT-diaphorase-responsive cell labeling. Chemical Communications, 2018, 54, 4878-4881.	4.1	18
53	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
54	Clickable, acid labile immunosuppressive prodrugs forin vivotargeting. Biomaterials Science, 2020, 8, 266-277.	5.4	16

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55	Recent progress in C(aryl)â€“C(alkyl) bond cleavage of alkylarenes. Organic Chemistry Frontiers, 2020, 7, 896-904.	4.5	15
56	Targeted Ultrasoundâ€Assisted Cancerâ€Selective Chemical Labeling and Subsequent Cancer Imaging using Click Chemistry. Angewandte Chemie, 2016, 128, 5542-5546.	2.0	14
57	Light-induced static magnetization: Nonlinear Edelstein effect. Physical Review B, 2021, 103, .	3.2	11
58	Generalized Wilson loop method for nonlinear light-matter interaction. Npj Quantum Materials, 2022, 7, .	5.2	10
59	Miniemulsion polymerization of styrene costabilized with polyurethane via 60Co Î³-ray radiation initiation. Colloid and Polymer Science, 2007, 285, 1093-1100.	2.1	8
60	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	8
61	Chemomechanical Interactions Dictate Lithium Surface Diffusion Kinetics in the Solid Electrolyte Interphase. Langmuir, 2022, 38, 5472-5480.	3.5	8
62	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
63	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie, 2018, 130, 4742-4746.	2.0	7
64	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
65	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
66	Correlations and incipient antiferromagnetic order within the linear Mn chains of metallic Ti4MnBi2. Physical Review B, 2020, 102, .	3.2	6
67	Targeting tumor extracellular matrix activates the tumor-draining lymph nodes. Cancer Immunology, Immunotherapy, 2022, 71, 2957-2968.	4.2	6
68	Abnormal nonlinear optical responses on the surface of topological materials. Npj Computational Materials, 2022, 8, .	8.7	6
69	Immune Cell Homing Biomaterials for Immunotherapy. Accounts of Materials Research, 2020, 1, 172-174.	11.7	5
70	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
71	Reusable Polyacrylonitrileâ€Sulfur Extractor of Heavy Metal Ions from Wastewater (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Ov	14.9	5
72	Nonconventional Fluorescent Polynorbornenes Bearing Aminosuccinimide Side Groups. Macromolecular Chemistry and Physics, 2017, 218, 1700410.	2.2	4

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73	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
74	Materialsâ€based vaccines for infectious diseases. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, .	6.1	4
75	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	10.0	3
76	Nonlinear nonreciprocal photocurrents under phonon dressing. Physical Review B, 2022, 106, .	3.2	3
77	Radiation miniemulsion polymerization system with HTPB or its derivative as the costabilizer. Colloid and Polymer Science, 2008, 286, 1039-1047.	2.1	2
78	P857â€…ONM-500 â€“ a novel STING-activating therapeutic nanovaccine platform for cancer immunotherapy. , 2020, , .		1
79	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
80	Ultralow Resistance Twoâ€Stage Electrostatically Assisted Air Filtration by Polydopamine Coated PET Coarse Filter (Small 33/2021). Small, 2021, 17, 2170172.	10.0	1
81	Recyclable cell-surface chemical tags for repetitive cancer targeting. Journal of Controlled Release, 2022, 347, 164-174.	9.9	1