Hengjiang Cong

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Thermosensitive crystallization–boosted liquid thermocells for low-grade heat harvesting. Science, 2020, 370, 342-346.	12.6	289
2	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2017, 139, 6448-6455.	13.7	197
3	Deciphering the Spatial Arrangement of Metals and Correlation to Reactivity in Multivariate Metal–Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 13822-13825.	13.7	187
4	Metal-organic frameworks for precise inclusion of single-stranded DNA and transfection in immune cells. Nature Communications, 2018, 9, 1293.	12.8	187
5	Electrochemical Oxidative Câ^'H Amination of Phenols: Access to Triarylamine Derivatives. Angewandte Chemie - International Edition, 2018, 57, 4737-4741.	13.8	148
6	π-Extended Benzoporphyrin-Based Metal–Organic Framework for Inhibition of Tumor Metastasis. ACS Nano, 2018, 12, 4630-4640.	14.6	136
7	Mesoporous Cages in Chemically Robust MOFs Created by a Large Number of Vertices with Reduced Connectivity. Journal of the American Chemical Society, 2019, 141, 488-496.	13.7	126
8	Electrooxidative para-selective C–H/N–H cross-coupling with hydrogen evolution to synthesize triarylamine derivatives. Nature Communications, 2019, 10, 639.	12.8	123
9	Achieving a balance between small singlet–triplet energy splitting and high fluorescence radiative rate in a quinoxaline-based orange-red thermally activated delayed fluorescence emitter. Chemical Communications, 2016, 52, 11012-11015.	4.1	105
10	Hexagonal RuSe ₂ Nanosheets for Highly Efficient Hydrogen Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2021, 60, 7013-7017.	13.8	88
11	Electrooxidation enables highly regioselective dearomative annulation of indole and benzofuran derivatives. Nature Communications, 2020, 11, 3.	12.8	81
12	Z-Selective Addition of Diaryl Phosphine Oxides to Alkynes via Photoredox Catalysis. ACS Catalysis, 2018, 8, 10599-10605.	11.2	74
13	Electrochemical oxidative C–H/S–H cross-coupling between enamines and thiophenols with H ₂ evolution. Chemical Science, 2019, 10, 2791-2795.	7.4	73
14	Structural and Biochemical Insight into the Mechanism of Rv2837c from Mycobacterium tuberculosis as a c-di-NMP Phosphodiesterase. Journal of Biological Chemistry, 2016, 291, 3668-3681.	3.4	67
15	Growth and Piezoelectric Properties of Melilite ABC ₃ O ₇ Crystals. Crystal Growth and Design, 2012, 12, 622-628.	3.0	66
16	Silver(I)-Catalyzed Atroposelective Desymmetrization of <i>N</i> -Arylmaleimide via 1,3-Dipolar Cycloaddition of Azomethine Ylides: Access to Octahydropyrrolo[3,4- <i>c</i>]pyrrole Derivatives. Journal of Organic Chemistry, 2016, 81, 3752-3760.	3.2	59
17	Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 5314-5321.	6.7	56
18	Structural and thermal properties of the monoclinic Lu ₂ SiO ₅ single crystal: evaluation as a new laser matrix. Journal of Applied Crystallography, 2009, 42, 284-294.	4.5	54

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19	Highly Active Carbon Supported Pd–Ag Nanofacets Catalysts for Hydrogen Production from HCOOH. ACS Applied Materials & Interfaces, 2016, 8, 20839-20848.	8.0	53
20	An Amorphous Cobalt Borate Nanosheet-Coated Cobalt Boride Hybrid for Highly Efficient Alkaline Water Oxidation Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 5620-5625.	6.7	51
21	Oxygen Vacancies and Stacking Faults Introduced by Low-Temperature Reduction Improve the Electrochemical Properties of Li ₂ MnO ₃ Nanobelts as Lithium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2017, 9, 38545-38555.	8.0	50
22	Enantioselective Assembly of Cycloenones with a Nitrile-Containing All-Carbon Quaternary Center from Malononitriles Enabled by Ni Catalysis. Journal of the American Chemical Society, 2020, 142, 7328-7333.	13.7	49
23	Catalytic Synthesis of Atropisomeric <i>o</i> -Terphenyls with 1,2-Diaxes via Axial-to-Axial Diastereoinduction. Journal of the American Chemical Society, 2021, 143, 7253-7260.	13.7	49
24	Membrane association of SadC enhances its diguanylate cyclase activity to control exopolysaccharides synthesis and biofilm formation in <i>Pseudomonas aeruginosa</i> . Environmental Microbiology, 2016, 18, 3440-3452.	3.8	47
25	Dynamic Hosts for High-Performance Li–S Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. ACS Energy Letters, 2018, 3, 1325-1330.	17.4	47
26	Investigations on the thermal and piezoelectric properties of fresnoite Ba2TiSi2O8 single crystals. Journal of Applied Physics, 2014, 116, .	2.5	46
27	Intramolecular electronic coupling for persistent room-temperature luminescence for smartphone based time-gated fingerprint detection. Materials Horizons, 2019, 6, 1215-1221.	12.2	45
28	Uniform Bi–Sb Alloy Nanoparticles Synthesized from MOFs by Laser Metallurgy for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 335-342.	6.7	43
29	Electrochemical Oxidative Câ^'H Amination of Phenols: Access to Triarylamine Derivatives. Angewandte Chemie, 2018, 130, 4827-4831.	2.0	42
30	Crystal growth and thermal properties of single crystal monoclinic NdCOB (NdCa4O(BO3)3). Journal of Alloys and Compounds, 2010, 507, 335-340.	5.5	41
31	Oxidation-Induced β-Selective C–H Bond Functionalization: Thiolation and Selenation of N-Heterocycles. ACS Catalysis, 2019, 9, 1888-1894.	11.2	41
32	ScVO ₄ : Explorations of Novel Crystalline Inorganic Optical Materials in Rare-Earth Orthovanadate Systems. Crystal Growth and Design, 2010, 10, 4389-4400.	3.0	39
33	Discovery of a ¹⁹ F MRI sensitive salinomycin derivative with high cytotoxicity towards cancer cells. Chemical Communications, 2016, 52, 5136-5139.	4.1	39
34	Stereoselective Palladium-Catalyzed 1,3-Arylboration of Unconjugated Dienes for Expedient Synthesis of 1,3-Disubstituted Cyclohexanes. ACS Catalysis, 2019, 9, 8555-8560.	11.2	39
35	Intermolecular Energy Gapâ€Induced Formation of Highâ€Valent Cobalt Species in CoOOH Surface Layer on Cobalt Sulfides for Efficient Water Oxidation. Angewandte Chemie, 2022, 134, .	2.0	39
36	Twist and sliding dynamics between interpenetrated frames in Ti-MOF revealing high proton conductivity. Chemical Science, 2020, 11, 3978-3985.	7.4	38

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37	Palladium-Catalyzed (4 + 4) Annulation of Silacyclobutanes and 2-lodobiarenes to Eight-Membered Silacycles via $C\hat{a} \in H$ and $C\hat{a} \in Si$ Bond Activation. ACS Catalysis, 2021, 11, 5703-5708.	11.2	36
38	Spectroscopy and laser performance of Nd:Lu_2O_3 crystal. Optics Express, 2011, 19, 17774.	3.4	35
39	Iron-Catalyzed Intramolecular Amination of Aliphatic C–H Bonds of Sulfamate Esters with High Reactivity and Chemoselectivity. Organic Letters, 2019, 21, 2673-2678.	4.6	35
40	Exfoliation of MoS ₂ Nanosheets Enabled by a Redox-Potential-Matched Chemical Lithiation Reaction. Nano Letters, 2022, 22, 2956-2963.	9.1	35
41	Top-Seeded Solution Growth, Structure, Morphology, and Functional Properties of a New Polar Crystal — Cs ₂ TeW ₃ O ₁₂ . Crystal Growth and Design, 2015, 15, 4484-4489.	3.0	34
42	β-Substituted Alkenyl Heteroarenes as Dipolarophiles in the Cu(I)-Catalyzed Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Ylides Empowered by a Dual Activation Strategy: Stereoselectivity and Mechanistic Insight. Journal of the American Chemical Society, 2021, 143, 3519-3535.	13.7	34
43	One-step rapid synthesis, crystal structure and 3.3 microseconds long excited-state lifetime of Pd1Ag28 nanocluster. Nano Research, 2020, 13, 366-372.	10.4	30
44	Growth, thermal properties and laser operation of Nd:Ca_3La_2(BO_3)_4: A new disordered laser crystal. Optics Express, 2013, 21, 6091.	3.4	29
45	Oxidant-free synthesis of benzimidazoles from alcohols and aromatic diamines catalysed by new Ru(<scp>ii</scp>)-PNS(O) pincer complexes. Dalton Transactions, 2017, 46, 15012-15022.	3.3	28
46	Spinel-layered integrate structured nanorods with both high capacity and superior high-rate capability as cathode material for lithium-ion batteries. Nano Research, 2017, 10, 556-569.	10.4	26
47	New Ru(<scp>ii</scp>) N′NN′-type pincer complexes: synthesis, characterization and the catalytic hydrogenation of CO ₂ or bicarbonates to formate salts. New Journal of Chemistry, 2017, 41, 3055-3060.	2.8	25
48	Isolated ï€-Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. ACS Applied Materials & Interfaces, 2019, 11, 973-981.	8.0	25
49	Manganese-catalyzed chlorosulfonylation of terminal alkene and alkyne via convergent paired electrolysis. Cell Reports Physical Science, 2021, 2, 100476.	5.6	25
50	Iridium-Catalyzed Asymmetric Hydrogenation of Tetrasubstituted α-Fluoro-β-enamino Esters: Efficient Access to Chiral α-Fluoro-β-amino Esters with Two Adjacent Tertiary Stereocenters. Organic Letters, 2018, 20, 6349-6353.	4.6	24
51	Syntheses and photoluminescence of copper(<scp>i</scp>) halide complexes containing dimethylthiophene bidentate phosphine ligands. New Journal of Chemistry, 2019, 43, 13408-13417.	2.8	24
52	A palladium/norbornene cooperative catalysis to access N-containing bridged scaffolds. Chemical Communications, 2019, 55, 8816-8819.	4.1	24
53	Electrochemical dual-oxidation strategy enables access to α-chlorosulfoxides from sulfides. Science Bulletin, 2022, 67, 79-84.	9.0	24
54	Thermal and electromechanical properties of melilite-type piezoelectric single crystals. Journal of Applied Physics, 2015, 117, .	2.5	23

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55	Controlling disorder in host lattice by hetero-valence ion doping to manipulate luminescence in spinel solid solution phosphors. Science China Chemistry, 2018, 61, 1624-1629.	8.2	23
56	A new strategy to synthesize three-coordinate mononuclear copper(<scp>i</scp>) halide complexes containing a bulky terphenyl bidentate phosphine ligand and their luminescent properties. New Journal of Chemistry, 2019, 43, 3390-3399.	2.8	23
57	Nitridation-induced metal–organic framework nanosheet for enhanced water oxidation electrocatalysis. Journal of Energy Chemistry, 2022, 64, 531-537.	12.9	23
58	Enantioselective Nickel-Catalyzed Reductive Aryl/Alkenyl–Cyano Cyclization Coupling to All-Carbon Quaternary Stereocenters. Journal of the American Chemical Society, 2022, 144, 4776-4782.	13.7	23
59	Polarized spectral properties and laser demonstration of Nd-doped Sr ₃ Y ₂ (BO ₃) ₄ crystal. Applied Optics, 2012, 51, 7144.	1.8	21
60	Enantioselective Access to Î ³ -All-Carbon Quaternary Center-Containing Cyclohexanones by Palladium-Catalyzed Desymmetrization. ACS Catalysis, 2020, 10, 216-224.	11.2	21
61	Sequence control of metals in MOF by coordination number precoding for electrocatalytic oxygen evolution. Chem Catalysis, 2022, 2, 84-101.	6.1	20
62	Synthesis of chiral α-substituted α-amino acid and amine derivatives through Ni-catalyzed asymmetric hydrogenation. Chemical Communications, 2020, 56, 4934-4937.	4.1	19
63	Electrochemical Oxidative Carbonâ€Atom Difunctionalization: Towards Multisubstituted Imino Sulfide Ethers. Angewandte Chemie - International Edition, 2021, 60, 1573-1577.	13.8	19
64	Growth, morphology and anisotropic thermal properties of Nd-doped Sr3Y2(BO3)4 crystal. Journal of Crystal Growth, 2013, 363, 176-184.	1.5	16
65	Ag(I)-Catalyzed Kinetic Resolution of Cyclopentene-1,3-diones. Organic Letters, 2018, 20, 3482-3486.	4.6	16
66	Boosting Hydrogen Oxidation Performance of Phase-Engineered Ni Electrocatalyst under Alkaline Media. ACS Sustainable Chemistry and Engineering, 2022, 10, 3682-3689.	6.7	16
67	Improved mechanical properties of poly (vinyl alcohol) films with glycerol plasticizer by uniaxial drawing. Polymers for Advanced Technologies, 2018, 29, 2612-2618.	3.2	15
68	Comparative Investigation into Formycin A and Pyrazofurin A Biosynthesis Reveals Branch Pathways for the Construction of <i>C</i> -Nucleoside Scaffolds. Applied and Environmental Microbiology, 2020, 86, .	3.1	15
69	Mitigation of voltage decay in Li-rich layered oxides as cathode materials for lithium-ion batteries. Nano Research, 2020, 13, 151-159.	10.4	15
70	Electrochemical Oxidative [4+2] Annulation of Different Styrenes toward the Synthesis of 1,2-Dihydronaphthalenes. CCS Chemistry, 2022, 4, 1557-1564.	7.8	15
71	Synthesis of Enantioenriched Fluorinated Enol Silanes Enabled by Asymmetric Reductive Coupling of Fluoroalkylacylsilanes and 1,3-Enynes and Brook Rearrangement. ACS Catalysis, 2022, 12, 2150-2157.	11.2	15
72	Morphological study of Czochralski-grown lanthanide orthovanadate single crystals and implications on the mechanism of bulk spiral formation. Journal of Applied Crystallography, 2010, 43, 308-319.	4.5	13

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73	Electrochemically selective double C(sp ²)–X (X = S/Se, N) bond formation of isocyanides. Chemical Science, 2021, 12, 14121-14125.	7.4	12
74	Growth and characterization of Nd:Lu3ScxGa5â ^{~2} xO12 series laser crystals. Optics Communications, 2011, 284, 5192-5198.	2.1	11
75	Enantioselective Construction of Bridgehead Quaternary Carbon Containing Bicyclo[3.3.1]nonanes by Palladium-Catalyzed ÂDesymmetric Arylation. Synthesis, 2018, 50, 1661-1666.	2.3	11
76	Phase transfer catalyst supported, room-temperature biphasic synthesis: a facile approach to the synthesis of coordination polymers. Dalton Transactions, 2012, 41, 4320.	3.3	9
77	Flux growth, structure, and physical characterization of new disordered laser crystal LiNd(MoO4)2. Journal of Crystal Growth, 2015, 423, 1-8.	1.5	9
78	Enhancing resistance to radiation hardening and radiation thermal conductivity degradation by tungsten/graphene interface engineering. Journal of Nuclear Materials, 2020, 539, 152348.	2.7	9
79	Growth and optical properties of Nd:LaVO4 monoclinic crystal. Journal of Materials Research, 2012, 27, 2528-2534.	2.6	8
80	Pd-catalyzed arylation/aza-Michael addition cascade to C2-spiroindolines and azabicyclo[3.2.2]nonanones. Chemical Communications, 2020, 56, 12013-12016.	4.1	8
81	Multivariate MOF for optimizing atmospheric water harvesting. Green Energy and Environment, 2022, 7, 575-577.	8.7	7
82	First principles calculations of mechanical properties of the YVO4 single crystal. Journal of Applied Physics, 2007, 102, 023516.	2.5	6
83	Composition characterization in YSGG garnet single crystals for ytterbium laser. Optical Materials Express, 2013, 3, 1408.	3.0	6
84	Redox active ligand and metal cooperation for C(sp ²)–H oxidation: extension of the galactose oxidase mechanism in water-mediated amide formation. Dalton Transactions, 2018, 47, 15293-15297.	3.3	6
85	Selective radical cascade (4+2) annulation with olefins towards the synthesis of chroman derivatives <i>via</i> organo-photoredox catalysis. Chemical Science, 2022, 13, 6316-6321.	7.4	4
86	Effect of high bismuth deficiency on structure and oxide ion conductivity of a Bi _{0.55} MoO ₄ single crystal. CrystEngComm, 2015, 17, 8746-8751.	2.6	3
87	Preparation, crystal structure, spectrographic characterization, thermal and third-order nonlinear optical properties of benzyltriethylammonium bis(2-thioxo-1,3-dithiole-4,5-dithiolato)aurate(III) for all-optical switching applications. Solid State Sciences, 2011, 13, 896-903.	3.2	2
88	Electrochemical Oxidative Carbonâ€Atom Difunctionalization: Towards Multisubstituted Imino Sulfide Ethers. Angewandte Chemie, 2021, 133, 1597-1601.	2.0	2
89	Stereoselective synthesis of 3,3′-pyrrolidinyl-spirooxindoles via the Zn(OAc)2-mediated asymmetric Mannich-type reaction. Tetrahedron Letters, 2021, 67, 152819.	1.4	2
90	Copper (II) synergistic AS1411 conjunction with chemical decaging reactions for selective fluorescence imaging and prodrug activation in living systems. Sensors and Actuators B: Chemical, 2021, 349, 130773.	7.8	0

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91	Morphological study of Czochralski-grown lanthanide orthovanadate single crystals and implications on the mechanism of spiral formation. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C459-C460.	0.3	Ο
92	Crystal structure and bonding analysis of the first dinuclear calcium(II)–proton-pump inhibitor (PPI) `butterfly molecule': a combined microcrystal synchrotron and DFT study. Acta Crystallographica Section C, Structural Chemistry, 2016, 72, 326-336.	0.5	0