Lei Sun

List of Publications by Year
in descending order

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42 papers	6,461 citations	236925 25 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	6655 citing authors

#	Article	IF	Citations
1	Electrically Conductive Porous Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 3566-3579.	13.8	1,444
2	High Electrical Conductivity in Ni₃(2,3,6,7,10,11-hexaiminotriphenylene)₂, a Semiconducting Metalâ€“Organic Graphene Analogue. Journal of the American Chemical Society, 2014, 136, 8859-8862.	13.7	893
3	Electrochemical oxygen reduction catalysed by Ni3(hexaiminotriphenylene)2. Nature Communications, 2016, 7, 10942.	12.8	577
4	Cation-Dependent Intrinsic Electrical Conductivity in Isostructural Tetrathiafulvalene-Based Microporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 1774-1777.	13.7	360
5	Signature of Metallic Behavior in the Metalâ€“Organic Frameworks M₃(hexaiminobenzene)₂ (M = Ni, Cu). Journal of the American Chemical Society, 2017, 139, 13608-13611.	13.7	324
6	Mn₂(2,5-disulfhydrylbenzene-1,4-dicarboxylate): A Microporous Metalâ€“Organic Framework with Infinite (â^'Mnâ€“Sâ^')_{â^ž} Chains and High Intrinsic Charge Mobility. Journal of the American Chemical Society, 2013, 135, 8185-8188.	13.7	291
7	Million-Fold Electrical Conductivity Enhancement in Fe₂(DEBDC) versus Mn₂(DEBDC) (E = S, O). Journal of the American Chemical Society, 2015, 137, 6164-6167.	13.7	291
8	Atomically precise single-crystal structures of electrically conducting 2D metalâ€“organic frameworks. Nature Materials, 2021, 20, 222-228.	27.5	239
9	Measuring and Reporting Electrical Conductivity in Metalâ€“Organic Frameworks: Cd₂(TTFTB) as a Case Study. Journal of the American Chemical Society, 2016, 138, 14772-14782.	13.7	221
10	Tunable Mixed-Valence Doping toward Record Electrical Conductivity in a Three-Dimensional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 7411-7414.	13.7	204
11	2D Conductive Iron-Quinoid Magnets Ordering up to T_c = 105 K via Heterogenous Redox Chemistry. Journal of the American Chemical Society, 2017, 139, 4175-4184.	13.7	196
12	ElektrischleitfÃhige porÃ¶se Metallâ€organische GerÃ¼stverbindungen. Angewandte Chemie, 2016, 128, 3628-3642.	2.0	180
13	Is iron unique in promoting electrical conductivity in MOFs?. Chemical Science, 2017, 8, 4450-4457.	7.4	176
14	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. Science Advances, 2018, 4, eaat5780.	10.3	167
15	A Microporous and Naturally Nanostructured Thermoelectric Metal-Organic Framework with Ultralow Thermal Conductivity. Joule, 2017, 1, 168-177.	24.0	159
16	High Electrical Conductivity in a 2D MOF with Intrinsic Superprotonic Conduction and Interfacial Pseudo-capacitance. Matter, 2020, 2, 711-722.	10.0	115
17	High temperature ferromagnetism in Ï€-conjugated two-dimensional metalâ€“organic frameworks. Chemical Science, 2017, 8, 2859-2867.	7.4	86
18	Mesenchymal Stem Cells Functionalized Sonodynamic Treatment for Improving Therapeutic Efficacy and Compliance of Orthotopic Oral Cancer. Advanced Materials, 2020, 32, e2005295.	21.0	62

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19	Reversible redox switching of magnetic order and electrical conductivity in a 2D manganese benzoquinoid framework. Chemical Science, 2019, 10, 4652-4661.	7.4	61
20	Magnetic ordering in TCNQ-based metalâ€“organic frameworks with hostâ€“guest interactions. Inorganic Chemistry Frontiers, 2015, 2, 904-911.	6.0	58
21	Solid-State Redox Switching of Magnetic Exchange and Electronic Conductivity in a Benzoquinoid-Bridged Mn^{II} Chain Compound. Journal of the American Chemical Society, 2016, 138, 6583-6590.	13.7	47
22	Conetronics in 2D metal-organic frameworks: double/half Dirac cones and quantum anomalous Hall effect. 2D Materials, 2017, 4, 015015.	4.4	41
23	A new optical and electrochemical sensor for fluoride ion based on the functionalized boronâ€“dipyrromethene dye with tetrathiafulvalene moiety. Tetrahedron Letters, 2011, 52, 6157-6161.	1.4	35
24	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	7.1	32
25	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe₂(DSBDC). Dalton Transactions, 2018, 47, 11739-11743.	3.3	27
26	Bioactive multi-engineered hydrogel offers simultaneous promise against antibiotic resistance and wound damage. International Journal of Biological Macromolecules, 2020, 164, 4466-4474.	7.5	22
27	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. Chemical Science, 2017, 8, 7312-7323.	7.4	20
28	Chemical control of spinâ€“lattice relaxation to discover a room temperature molecular qubit. Chemical Science, 2022, 13, 7034-7045.	7.4	16
29	Two-dimensional Dirac materials: Tight-binding lattice models and material candidates. ChemPhysMater, 2023, 2, 30-42.	2.8	15
30	Nanosized Phaseâ€Changeable â€œSonocyteâ€•for Promoting Ultrasound Assessment. Small, 2020, 16, 2002950.	10.0	13
31	Controlled nâ€Doping of Naphthaleneâ€Diimideâ€Based 2D Polymers. Advanced Materials, 2022, 34, e2101932.	21.0	13
32	Dinuclear rhenium(I) carbonyl complexes based on Ï€-conjugated polypyridyl ligands with tetrathiafulvalenes: Syntheses, crystal structures, properties and DFT calculations. Journal of Organometallic Chemistry, 2011, 696, 3076-3085.	1.8	12
33	Monoâ€•and Dinuclear Co/Ni Complexes Bearing Redoxâ€Active Tetrathiafulvaleneacetylacetonate Ligands â€“ Syntheses, Crystal Structures, and Properties. European Journal of Inorganic Chemistry, 2011, 2011, 5173-5181.	2.0	11
34	A stimuli-responsive combination therapy for recovering p53-inactivation associated drug resistance. Materials Science and Engineering C, 2020, 108, 110403.	7.3	11
35	Syntheses, structures, and properties of metal complexes involving Ï€-conjugated tetrathiafulvaleneâ€“pyridine ligand. Polyhedron, 2011, 30, 2473-2478.	2.2	8
36	An interrelated CataFlower enzyme system for sensitively monitoring sweat glucose. Talanta, 2021, 235, 122799.	5.5	8

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37	Strong Magnetocrystalline Anisotropy Arising from Metalâ€“Ligand Covalency in a Metalâ€“Organic Candidate for 2D Magnetic Order. Chemistry of Materials, 2021, 33, 8712-8721.	6.7	8
38	An octopus-mimic PEGylated peptide as a specific integrin Î±vÎ²3 inhibitor for preventing tumor progression. Chemical Communications, 2020, 56, 2178-2181.	4.1	5
39	A mitochondria-specific fluorescent probe for rapidly assessing cell viability. Talanta, 2021, 221, 121653.	5.5	5
40	Syntheses, crystal structures, and characterization of heteronuclear complexes based on a versatile ligand with both acetylacetonate and bis(2-pyridyl) units. Inorganica Chimica Acta, 2011, 376, 36-43.	2.4	4
41	A glutathione-triggered precision explosive system for improving tumor chemosensitivity. Nano Research, 2021, 14, 2372.	10.4	4
42	Predicting Multi-Epitope Vaccine Candidates Using Natural Language Processing and Deep Learning. , 2021, , .		0