Dongliang Chen

List of Publications by Year
in descending order

64 papers	4,847 citations	331670 21 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	7315 citing authors

#	Article	IF	Citations
1	General synthesis and definitive structural identification of MN4C4 single-atom catalysts with tunable electrocatalytic activities. Nature Catalysis, 2018, 1, 63-72.	34.4	1,476
2	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. Nature Communications, 2015, 6, 8668.	12.8	1,356
3	Single atom electrocatalysts supported on graphene or graphene-like carbons. Chemical Society Reviews, 2019, 48, 5207-5241.	38.1	441
4	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	14.6	435
5	Electronic Structures and Magnetic Properties of GaN Sheets and Nanoribbons. Journal of Physical Chemistry C, 2010, 114, 11390-11394.	3.1	115
6	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pdâ€“Mo catalyst. Nature Communications, 2017, 8, 591.	12.8	110
7	Subcellular Distribution of Metals within Brassica chinensis L. in Response to Elevated Lead and Chromium Stress. Journal of Agricultural and Food Chemistry, 2013, 61, 4715-4722.	5.2	66
8	Molecular nitrogen promotes catalytic hydrodeoxygenation. Nature Catalysis, 2019, 2, 1078-1087.	34.4	63
9	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. Journal of Hazardous Materials, 2020, 389, 122117.	12.4	57
10	Manganese deception on graphene and implications in catalysis. Carbon, 2018, 132, 623-631.	10.3	54
11	Toward a Unified Identification of Ti Location in the MFI Framework of High-Ti-Loaded TS-1: Combined EXAFS, XANES, and DFT Study. Journal of Physical Chemistry C, 2016, 120, 20114-20124.	3.1	45
12	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO₂ Nanoparticles in Cucumber Plants. ACS Applied Materials & Interfaces, 2019, 11, 16905-16913.	8.0	45
13	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. Geoderma, 2019, 350, 52-60.	5.1	43
14	Paramagnetic anisotropy of Co-doped ZnO single crystal. Applied Physics Letters, 2006, 89, 112507.	3.3	40
15	The structural determination of endohedral metallofullerene Gd@C₈₂by XANES. Chemical Communications, 2008, , 474-476.	4.1	39
16	Elemental depth profile of faux bamboo paint in Forbidden City studied by synchrotron radiation confocal Âµâ€XRF. X-Ray Spectrometry, 2008, 37, 595-598.	1.4	26
17	Characterization of a confocal three-dimensional micro X-ray fluorescence facility based on polycapillary X-ray optics and Kirkpatrickâ€“Baez mirrors. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 76-80.	2.9	25
18	Correlation between local structure and molar ratio of Au (III) complexes in aqueous solution: An XAS investigation. Chemical Geology, 2009, 268, 74-80.	3.3	24

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19	Local structures of Mn in dilute magnetic semiconductor ZnMnO. Solid State Communications, 2007, 141, 374-377.	1.9	23
20	Highâ€Temperature Transport Property of <scp><scp>In</scp></scp>_{2â^'x}<scp><scp>Ce</scp></scp>_x<scp><scp>O3</scp></scp><sub>(0Ââ‰ÂxÂâ‰Â0.10) Fine Grained Ceramics. Journal of the American Ceramic Society, 2012, 95, 2568-2572.	3.8	23
21	Structure of grain boundaries in nanostructured ZnO. Applied Physics Letters, 2004, 84, 4442-4444.	3.3	22
22	Lead and copper-induced hormetic effect and toxicity mechanisms in lettuce (Lactuca sativa L.) grown in a contaminated soil. Science of the Total Environment, 2020, 741, 140440.	8.0	22
23	Abnormal dielectric behaviors in Mn-doped CaCu3Ti4O12 ceramics and their response mechanism. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1773-1776.	3.5	21
24	Suppression of Bragg reflection glitches of a single-crystal diamond anvil cell by a polycapillary half-lens in high-pressure XAFS spectroscopy. Journal of Synchrotron Radiation, 2013, 20, 243-248.	2.4	20
25	Electronic structure study of Li+/OHâ^' modified single-walled carbon nanotubes by soft-x-ray absorption and resonant emission spectroscopy. Applied Physics Letters, 2010, 96, 213112.	3.3	17
26	Effect of Nd/Mn substitution on the structure and magnetic properties of nano-BiFeO3. Journal of Alloys and Compounds, 2019, 786, 385-393.	5.5	17
27	Speciation of zinc in secondary fly ashes of municipal solid waste at high temperatures. Journal of Synchrotron Radiation, 2009, 16, 528-532.	2.4	15
28	Quantitative local structure determination in mica crystals:ab initiosimulations of polarization XANES at the potassiumK-edge. Journal of Synchrotron Radiation, 2011, 18, 418-426.	2.4	15
29	Analysis of TID Failure Modes in SRAM-Based FPGA Under Gamma-Ray and Focused Synchrotron X-Ray Irradiation. IEEE Transactions on Nuclear Science, 2014, 61, 1777-1784.	2.0	15
30	Nonrandomly Distributed Tungsten Vacancies and Interstitial Boron Trimers in Tungsten Tetraboride. Journal of Physical Chemistry C, 2019, 123, 29314-29323.	3.1	12
31	Pressure-induced drastic collapse of a high oxygen coordination shell in quartz-likeÎ±-GeO₂. New Journal of Physics, 2014, 16, 023022.	2.9	11
32	Biâ€centric view of the isostructural phase transitions in Î±â€Bi₂Se₃ and Î±â€Bi₂Te₃. Physica Status Solidi (B): Basic Research, 2017, 254, 1700007.	1.5	11
33	Comparative investigation of the vibrational properties of bulk 2Hâ€“MoS₂ and its exfoliated nanosheets under high pressure. Journal of Raman Spectroscopy, 2017, 48, 596-600.	2.5	10
34	Study of an archeological opaque red glass bead from China by XRD, XRF, and XANES. X-Ray Spectrometry, 2012, 41, 363-366.	1.4	9
35	The Interaction of CuS and Halothiobacillus HT1 Biofilm in Microscale Using Synchrotron Radiation-Based Techniques. International Journal of Molecular Sciences, 2013, 14, 11113-11124.	4.1	9
36	Colouration mechanism of underglaze copper-red decoration porcelain (AD 13thâ€“14th century), China. Journal of Synchrotron Radiation, 2014, 21, 751-755.	2.4	9

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37	Revisiting local structural changes in GeO₂glass at high pressure. Journal of Physics Condensed Matter, 2017, 29, 465401.	1.8	8
38	Prediction of topological nontrivial semimetals and pressure-induced Lifshitz transition in 1Tâ€²-MoS₂layered bulk polytypes. Nanoscale, 2020, 12, 22710-22717.	5.6	8
39	Oxygen K-edge XANES investigation of NicMg1â^'cO solid solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 458-461.	3.9	7
40	Local structural changes during the disordered substitutional alloy transition in Bi2Te3 by high-pressure XAFS. Journal of Applied Physics, 2018, 124, 065901.	2.5	7
41	Local insight into the La-induced structural phase transition in multiferroic BiFeO₃ ceramics by x-ray absorption fine structure spectroscopy. Journal of Physics Condensed Matter, 2019, 31, 085402.	1.8	7
42	A theoretical and experimental XAS study of monolayer dispersive supported CuO/Î³-Al2O3 catalysts. Radiation Physics and Chemistry, 2006, 75, 1921-1925.	2.8	6
43	Experimental and theoretical identification of a high-pressure polymorph of Ga2S3 with Î±-Bi2Te3-type structure. Journal of Applied Physics, 2014, 116, 193507.	2.5	6
44	Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars. Chemosphere, 2022, 301, 134590.	8.2	6
45	Non-targeted metallomics through synchrotron radiation X-ray fluorescence with machine learning for cancer screening using blood samples. Talanta, 2022, 245, 123486.	5.5	6
46	High Temperature Transport Property of Copper site Doped La2CuO4. Journal of the American Ceramic Society, 2011, 94, 1471-1476.	3.8	5
47	Pressure-induced phase transitions of multiferroic BiFeO ₃. Chinese Physics C, 2013, 37, 128001.	3.7	5
48	High-pressure, high-temperature synthesis and properties of the monoclinic phase of Y2O3. Chemical Research in Chinese Universities, 2016, 32, 545-548.	2.6	5
49	Extraordinary local structure deformation of superhard tungsten tetraboride under compression. Journal of Alloys and Compounds, 2020, 817, 152989.	5.5	5
50	Universal elastic-hardening-driven mechanical instability in Î±-quartz and quartz homeotypes under pressure. Scientific Reports, 2015, 5, 10810.	3.3	4
51	Pressure-induced phase transitions and structural evolution across the insulatorâ€“metal transition in bulk and nanoscale BiFeO₃. Journal of Physics Condensed Matter, 2019, 31, 265404.	1.8	4
52	Local insight to the structural phase transition sequence of Bi₂Se₃ under quasi-hydrostatic and nonhydrostatic pressure. Journal of Physics Condensed Matter, 2021, 33, 215402.	1.8	3
53	Observation of pressure induced charge density wave order and eightfold structure in bulk VSe2. Scientific Reports, 2021, 11, 18157.	3.3	3
54	Structural disorder and electronic hybridization in Ni_cMg_{1â^'c}O solid solutions probed by XANES at the oxygen K edge. Journal of Physics Condensed Matter, 2007, 19, 356219.	1.8	2

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55	Intrinsic magnetism of a series of Co substituted ZnO single crystals. Journal of Physics Condensed Matter, 2008, 20, 035206.	1.8	2
56	Anharmonicity and local lattice distortion in strained Ge-dilute Si1âˆ’Ge alloy. Journal of Alloys and Compounds, 2015, 653, 117-121.	5.5	2
57	Anomalous lattice stiffening in tungsten tetraboride solid solutions with manganese under compression. Journal of Physics Condensed Matter, 2020, 32, 165702.	1.8	2
58	Application of a new-structure polycapillary x-ray optics in high pressure XAFS. Journal of Optics (United Kingdom), 2014, 16, 105207.	2.2	1
59	Anomalous enhancement of atomic vibration induced by electronic transition in 2H-MoTe2 under compression. Journal of Physics Condensed Matter, 2021, 34, .	1.8	1
60	Unusual suppression of tungsten 5d electron depletion in superhard tungsten tetraboride solid solution with chromium under compression. Journal of Physics Condensed Matter, 2022, 34, 035401.	1.8	1
61	Anomalous radial and angular strain relaxation around dilute p-, isoelectronic-, and n-type dopants in Si crystal. Physica B: Condensed Matter, 2017, 506, 198-204.	2.7	0
62	Biâ€¢centric view of the isostructural phase transitions in Î±â€²Bi₂Se₃ and Î±â€²Bi₂Te₃ (Phys. Status Solidi B 7/2017). Physica Status Solidi (B): Basic Research, 2017, 254, 1770238.	1.5	0
63	Applications of Field-reversal and Angle-dependent XMCD Techniques to Mn-based Diluted Magnetic Materials. Medziagotyra, 2019, 25, .	0.2	0
64	Studies on Location of Acupoints with X-ray Fluorescence Analysis Based on Synchrotron Radiation. Journal of Medical Imaging and Health Informatics, 2021, 11, 2178-2183.	0.3	0