

Dongliang Chen

List of Publications by Year in descending order

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64
papers

4,847
citations

331670

21
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128289

60
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64
docs citations

64
times ranked

7315
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual suppression of tungsten 5d electron depletion in superhard tungsten tetraboride solid solution with chromium under compression. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 035401.	1.8	1
2	Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars. <i>Chemosphere</i> , 2022, 301, 134590.	8.2	6
3	Non-targeted metallomics through synchrotron radiation X-ray fluorescence with machine learning for cancer screening using blood samples. <i>Talanta</i> , 2022, 245, 123486.	5.5	6
4	Local insight to the structural phase transition sequence of Bi ₂ Se ₃ under quasi-hydrostatic and nonhydrostatic pressure. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 215402.	1.8	3
5	Studies on Location of Acupoints with X-ray Fluorescence Analysis Based on Synchrotron Radiation. <i>Journal of Medical Imaging and Health Informatics</i> , 2021, 11, 2178-2183.	0.3	0
6	Observation of pressure induced charge density wave order and eightfold structure in bulk VSe ₂ . <i>Scientific Reports</i> , 2021, 11, 18157.	3.3	3
7	Anomalous enhancement of atomic vibration induced by electronic transition in 2H-MoTe ₂ under compression. <i>Journal of Physics Condensed Matter</i> , 2021, 34, .	1.8	1
8	Extraordinary local structure deformation of superhard tungsten tetraboride under compression. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152989.	5.5	5
9	Prediction of topological nontrivial semimetals and pressure-induced Lifshitz transition in 1Tâ€²-MoS ₂ layered bulk polytypes. <i>Nanoscale</i> , 2020, 12, 22710-22717.	5.6	8
10	Lead and copper-induced hormetic effect and toxicity mechanisms in lettuce (<i>Lactuca sativa</i> L.) grown in a contaminated soil. <i>Science of the Total Environment</i> , 2020, 741, 140440.	8.0	22
11	Anomalous lattice stiffening in tungsten tetraboride solid solutions with manganese under compression. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 165702.	1.8	2
12	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. <i>Journal of Hazardous Materials</i> , 2020, 389, 122117.	12.4	57
13	Effect of Nd/Mn substitution on the structure and magnetic properties of nano-BiFeO ₃ . <i>Journal of Alloys and Compounds</i> , 2019, 786, 385-393.	5.5	17
14	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. <i>Geoderma</i> , 2019, 350, 52-60.	5.1	43
15	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO ₂ Nanoparticles in Cucumber Plants. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16905-16913.	8.0	45
16	Pressure-induced phase transitions and structural evolution across the insulatorâ€“metal transition in bulk and nanoscale BiFeO ₃ . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 265404.	1.8	4
17	Applications of Field-reversal and Angle-dependent XMCD Techniques to Mn-based Diluted Magnetic Materials. <i>Medziagotyra</i> , 2019, 25, .	0.2	0
18	Nonrandomly Distributed Tungsten Vacancies and Interstitial Boron Trimers in Tungsten Tetraboride. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29314-29323.	3.1	12

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19	Single atom electrocatalysts supported on graphene or graphene-like carbons. <i>Chemical Society Reviews</i> , 2019, 48, 5207-5241.	38.1	441
20	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , 2019, 2, 1078-1087.	34.4	63
21	Local insight into the La-induced structural phase transition in multiferroic BiFeO ₃ ceramics by x-ray absorption fine structure spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 085402.	1.8	7
22	Manganese deception on graphene and implications in catalysis. <i>Carbon</i> , 2018, 132, 623-631.	10.3	54
23	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	34.4	1,476
24	Local structural changes during the disordered substitutional alloy transition in Bi ₂ Te ₃ by high-pressure XAFS. <i>Journal of Applied Physics</i> , 2018, 124, 065901.	2.5	7
25	Comparative investigation of the vibrational properties of bulk 2H-MoS ₂ and its exfoliated nanosheets under high pressure. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 596-600.	2.5	10
26	Anomalous radial and angular strain relaxation around dilute p-, isoelectronic-, and n-type dopants in Si crystal. <i>Physica B: Condensed Matter</i> , 2017, 506, 198-204.	2.7	0
27	Bi-centric view of the isostructural phase transitions in Bi ₂ Se ₃ and Bi ₂ Te ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700007.	1.5	11
28	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pd-Mo catalyst. <i>Nature Communications</i> , 2017, 8, 591.	12.8	110
29	Revisiting local structural changes in GeO ₂ glass at high pressure. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 465401.	1.8	8
30	Bi-centric view of the isostructural phase transitions in Bi ₂ Se ₃ and Bi ₂ Te ₃ (Phys. Status Solidi B 7/2017). <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1770238.	1.5	0
31	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Nano</i> , 2017, 11, 6930-6941.	14.6	435
32	Toward a Unified Identification of Ti Location in the MFI Framework of High-Ti-Loaded TS-1: Combined EXAFS, XANES, and DFT Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20114-20124.	3.1	45
33	High-pressure, high-temperature synthesis and properties of the monoclinic phase of Y ₂ O ₃ . <i>Chemical Research in Chinese Universities</i> , 2016, 32, 545-548.	2.6	5
34	Universal elastic-hardening-driven mechanical instability in α -quartz and quartz homeotypes under pressure. <i>Scientific Reports</i> , 2015, 5, 10810.	3.3	4
35	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. <i>Nature Communications</i> , 2015, 6, 8668.	12.8	1,356
36	Anharmonicity and local lattice distortion in strained Ge-dilute Si _{1-x} Ge alloy. <i>Journal of Alloys and Compounds</i> , 2015, 653, 117-121.	5.5	2

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37	Colouration mechanism of underglaze copper-red decoration porcelain (AD 13th–14th century), China. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 751-755.	2.4	9
38	Experimental and theoretical identification of a high-pressure polymorph of Ga ₂ S ₃ with $\hat{1}\pm$ -Bi ₂ Te ₃ -type structure. <i>Journal of Applied Physics</i> , 2014, 116, 193507.	2.5	6
39	Pressure-induced drastic collapse of a high oxygen coordination shell in quartz-like $\hat{1}\pm$ -GeO ₂ . <i>New Journal of Physics</i> , 2014, 16, 023022.	2.9	11
40	Application of a new-structure polycapillary x-ray optics in high pressure XAFS. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 105207.	2.2	1
41	Analysis of TID Failure Modes in SRAM-Based FPGA Under Gamma-Ray and Focused Synchrotron X-Ray Irradiation. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 1777-1784.	2.0	15
42	Subcellular Distribution of Metals within <i>Brassica chinensis</i> L. in Response to Elevated Lead and Chromium Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4715-4722.	5.2	66
43	The Interaction of CuS and <i>Halothiobacillus</i> HT1 Biofilm in Microscale Using Synchrotron Radiation-Based Techniques. <i>International Journal of Molecular Sciences</i> , 2013, 14, 11113-11124.	4.1	9
44	Suppression of Bragg reflection glitches of a single-crystal diamond anvil cell by a polycapillary half-lens in high-pressure XAFS spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 243-248.	2.4	20
45	Pressure-induced phase transitions of multiferroic BiFeO ₃ . <i>Chinese Physics C</i> , 2013, 37, 128001.	3.7	5
46	Abnormal dielectric behaviors in Mn-doped CaCu ₃ Ti ₄ O ₁₂ ceramics and their response mechanism. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1773-1776.	3.5	21
47	Study of an archeological opaque red glass bead from China by XRD, XRF, and XANES. <i>X-Ray Spectrometry</i> , 2012, 41, 363-366.	1.4	9
48	High-Temperature Transport Property of $\ln_{2-x}\text{Ce}_x\text{O}_{3.8}$ (0.10) Fine Grained Ceramics. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2568-2572.	3.8	23
49	High Temperature Transport Property of Copper site Doped La ₂ CuO ₄ . <i>Journal of the American Ceramic Society</i> , 2011, 94, 1471-1476.	3.8	5
50	Quantitative local structure determination in mica crystals: <i>ab initio</i> simulations of polarization XANES at the potassium K-edge. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 418-426.	2.4	15
51	Electronic structure study of Li ⁺ /OH ⁻ modified single-walled carbon nanotubes by soft-x-ray absorption and resonant emission spectroscopy. <i>Applied Physics Letters</i> , 2010, 96, 213112.	3.3	17
52	Electronic Structures and Magnetic Properties of GaN Sheets and Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11390-11394.	3.1	115
53	Speciation of zinc in secondary fly ashes of municipal solid waste at high temperatures. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 528-532.	2.4	15
54	Correlation between local structure and molar ratio of Au (III) complexes in aqueous solution: An XAS investigation. <i>Chemical Geology</i> , 2009, 268, 74-80.	3.3	24

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55	Elemental depth profile of faux bamboo paint in Forbidden City studied by synchrotron radiation confocal μ -XRF. X-Ray Spectrometry, 2008, 37, 595-598.	1.4	26
56	Oxygen K-edge XANES investigation of NiMg $_{1-x}$ O solid solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 458-461.	3.9	7
57	Characterization of a confocal three-dimensional micro X-ray fluorescence facility based on polycapillary X-ray optics and Kirkpatrick-Baez mirrors. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 76-80.	2.9	25
58	The structural determination of endohedral metallofullerene Gd@C $_{82}$ by XANES. Chemical Communications, 2008, , 474-476.	4.1	39
59	Intrinsic magnetism of a series of Co substituted ZnO single crystals. Journal of Physics Condensed Matter, 2008, 20, 035206.	1.8	2
60	Structural disorder and electronic hybridization in Ni $_x$ Mg $_{1-x}$ O solid solutions probed by XANES at the oxygen K edge. Journal of Physics Condensed Matter, 2007, 19, 356219.	1.8	2
61	Local structures of Mn in dilute magnetic semiconductor ZnMnO. Solid State Communications, 2007, 141, 374-377.	1.9	23
62	Paramagnetic anisotropy of Co-doped ZnO single crystal. Applied Physics Letters, 2006, 89, 112507.	3.3	40
63	A theoretical and experimental XAS study of monolayer dispersive supported CuO/ γ -Al $_2$ O $_3$ catalysts. Radiation Physics and Chemistry, 2006, 75, 1921-1925.	2.8	6
64	Structure of grain boundaries in nanostructured ZnO. Applied Physics Letters, 2004, 84, 4442-4444.	3.3	22