

BÄ;lint NÄ;frÄ;di

List of Publications by Year in descending order

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87
papers

2,059
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257101

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docs citations

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3592
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Analysis of the Experimental Electron Density in Multiferroic Antiferromagnet Ba ₂ MnGe ₂ O ₇ . IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	3
2	Kilogramâ€Scale Crystallography of Halide Perovskites for Gammaâ€Rays Dose Rate Measurements. Advanced Science, 2021, 8, 2001882.	5.6	21
3	Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. ACS Nano, 2021, 15, 4077-4084.	7.3	71
4	Hybrid halide perovskite neutron detectors. Scientific Reports, 2021, 11, 17159.	1.6	10
5	Global, regional, and national burdens of ischemic heart disease and stroke attributable to exposure to long working hours for 194 countries, 2000â€2016: A systematic analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. Environment International, 2021, 154, 106595.	4.8	155
6	Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. Energy Conversion and Management, 2020, 205, 112423.	4.4	18
7	Intermolecular Resonance Correlates Electron Pairs Down a Supermolecular Chain: Antiferromagnetism in K-Doped p-Terphenyl. Journal of the American Chemical Society, 2020, 142, 20624-20630.	6.6	3
8	Tuning Conductivity and Spin Dynamics in Fewâ€Layer Graphene via In Situ Potassium Exposure. Physica Status Solidi (B): Basic Research, 2020, 257, 2000368.	0.7	1
9	Quantum spin-liquid states in an organic magnetic layer and molecular rotor hybrid. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29555-29560.	3.3	5
10	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. ACS Nano, 2020, 14, 7492-7501.	7.3	8
11	Tuning ferromagnetism at room temperature by visible light. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6417-6423.	3.3	15
12	Light-induced charge transfer at the CH ₃ NH ₃ Pb ₃ /TiO ₂ interfaceâ€a low-temperature photo-electron paramagnetic resonance assay. JPhys Photonics, 2020, 2, 014007.	2.2	2
13	Improved Alkali Intercalation of Carbonaceous Materials in Ammonia Solution. Physica Status Solidi (B): Basic Research, 2019, 256, 1900324.	0.7	4
14	Pressure-induced transformation of CH ₃ NH ₃ Pb ₃ : the role of the noble-gas pressure transmitting media. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 361-370.	0.5	4
15	Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. ACS Photonics, 2019, 6, 967-975.	3.2	49
16	Dry-pressed anodized titania nanotube/CH ₃ NH ₃ Pb ₃ single crystal heterojunctions: The beneficial role of N doping. Ceramics International, 2019, 45, 10013-10020.	2.3	5
17	Highly stable enzyme-mimicking nanocomposite of antioxidant activity. Journal of Colloid and Interface Science, 2019, 543, 174-182.	5.0	22
18	Characterizing the maximum number of layers in chemically exfoliated graphene. Scientific Reports, 2019, 9, 19480.	1.6	14

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19	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe ₃ O ₄ film on SrTiO ₃ :Nb by v-MOKE and ferromagnetic resonance. <i>Nanoscale</i> , 2019, 11, 19870-19876.	2.8	3
20	Crystal Structure of Magnetoelectric Ba ₂ MnGe ₂ O ₇ at Room and Low Temperatures by Neutron Diffraction. <i>Inorganic Chemistry</i> , 2018, 57, 5089-5095.	1.9	8
21	Mechanical response of CH ₃ NH ₃ PbI ₃ nanowires. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15
22	Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, NH ₃ CH ₂ CH ₂ NH ₃ PbI ₄ . <i>CrystEngComm</i> , 2018, 20, 3543-3549.	1.3	3
23	Photodiode Response in a CH ₃ NH ₃ PbI ₃ /CH ₃ NH ₃ SnI ₃ Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10198-10202.	4.0	10
24	Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. <i>Catalysis Today</i> , 2017, 284, 146-152.	2.2	9
25	Three-Dimensionally Enlarged Photoelectrodes by a Protogenetic Inclusion of Vertically Aligned Carbon Nanotubes into CH ₃ NH ₃ PbBr ₃ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13549-13556.	1.5	31
26	Mechanical signatures of degradation of the photovoltaic perovskite CH ₃ NH ₃ PbI ₃ upon water vapor exposure. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	38
27	Optical detection of charge dynamics in CH ₃ NH ₃ PbI ₃ /carbon nanotube composites. <i>Nanoscale</i> , 2017, 9, 17781-17787.	2.8	7
28	J_1 square lattice antiferromagnetism in the orbitally quenched insulator MoOPO ₄ . <i>Physical Review B</i> , 2017, 96, .	1.1	10
29	Clean, cleaved surfaces of the photovoltaic perovskite. <i>Scientific Reports</i> , 2017, 7, 695.	1.6	27
30	Magnetic structure of the magnetoelectric material Ca ₂ O ₇ . <i>Physical Review B</i> , 2017, 95, .	1.1	4
31	Doped carbon nanotubes as a model system of biased graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	11
32	Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. <i>Langmuir</i> , 2017, 33, 9043-9049.	1.6	3
33	Electron Spin Dynamics of Two-Dimensional Layered Materials. <i>Advanced Functional Materials</i> , 2017, 27, 1604040.	7.8	13
34	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. <i>Catalysis Today</i> , 2017, 284, 52-58.	2.2	10
35	Rapid thickness reading of CH ₃ NH ₃ PbI ₃ nanowire thin films from color maps. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2017-2023.	0.8	5
36	Anisotropic Elliott-Yafet theory and application to KC ₈ potassium intercalated graphite. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2505-2508.	0.7	1

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37	Optically switched magnetism in photovoltaic perovskite CH ₃ NH ₃ (Mn:Pb)I ₃ . Nature Communications, 2016, 7, 13406.	5.8	106
38	Dinuclear clathrochelate complexes with pendent cyano groups as metalloligands. Dalton Transactions, 2016, 45, 15507-15516.	1.6	19
39	Possibility of an unconventional spin state of Ir ⁴⁺ in Ba ₂ IrO ₄ single crystal. Physical Review B, 2016, 94, .	1.1	0
40	Magnetotransport studies of superconducting Pr ₄ Fe ₂ As ₂ Te ₁₀ O ₄ . Physical Review B, 2016, 93, .	1.1	7
41	Magnetostriction and Magnetostructural Domains in Antiferromagnetic YBa ₂ Cu ₃ O _{7-x} . Physical Review Letters, 2016, 116, 047001.	1.1	7
42	Controlled growth of CH ₃ NH ₃ PbI ₃ nanowires in arrays of open nanofluidic channels. Scientific Reports, 2016, 6, 19834.	1.6	81
43	Room temperature manipulation of long lifetime spins in metallic-like carbon nanospheres. Nature Communications, 2016, 7, 12232.	5.8	28
44	Frustration-induced one-dimensionality in the isosceles triangular antiferromagnetic lattice of (EDT-TTF) ⁺ Tj ETQq O O r gBT /Overlock 10 Tf 50 457 Td (xmls:mml="http://www.w3.org/1998/Math/MathML")		
45	The low-temperature crystal structure of the multiferroic melilite Ca ₂ CoSi ₂ O ₇ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 126-132.	0.5	7
46	Ultrasensitive 1D field-effect phototransistors: CH ₃ NH ₃ PbI ₃ nanowire sensitized individual carbon nanotubes. Nanoscale, 2016, 8, 4888-4893.	2.8	54
47	Upper critical field, pressure-dependent superconductivity and electronic anisotropy of Sm ₄ Fe ₂ As ₂ Te ₁₀ O ₄ . Journal of Physics Condensed Matter, 2016, 28, 115701.		
48	Anisotropic transport properties of tungsten disulfide. Scripta Materialia, 2016, 114, 48-50.	2.6	53
49	Photodetectors: Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature (Small) Tj ETQq 1 1 05784314 rgBT /Over		
50	Transport, magnetic and vibrational properties of chemically exfoliated few-layer graphene. Physica Status Solidi (B): Basic Research, 2015, 252, 2438-2443.	0.7	5
51	Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. Small, 2015, 11, 4824-4828.	5.2	151
52	Two-dimensional Magnetism in (BEDT-TTF) ₂ Cu[N(CN) ₂ Cl], a Spin-1/2 Heisenberg Antiferromagnet with Dzyaloshinskii-Moriya Interaction. Journal of the Physical Society of Japan, 2015, 84, 124704.	0.7	8
53	Strong Interplay between the Electron Spin Lifetime in Chemically Synthesized Graphene Multilayers and Surface-Bound Oxygen. Chemistry - A European Journal, 2015, 21, 770-777.	1.7	11
54	The Role of Transport Agents in MoS ₂ Single Crystals. Journal of Physical Chemistry C, 2015, 119, 3918-3922.	1.5	44

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55	Tuning of the Thermoelectric Figure of Merit of $\text{CH}_3\text{NH}_3\text{Ml}_3$ ($\text{M}=\text{Pb}, \text{Sn}$) Photovoltaic Perovskites. Journal of Physical Chemistry C, 2015, 119, 11506-11510.	1.5	145
56	Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. Journal of Physical Chemistry C, 2015, 119, 25204-25208.	1.5	61
57	Spin lifetime of itinerant electrons in chemically synthesized graphene multi-layers. Carbon, 2014, 74, 346-351.	5.4	15
58	Evolution of two-dimensional antiferromagnetism with temperature and magnetic field in multiferroic $\text{Ba}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2014, 89, .	1.1	20
59	Electron spin lifetime in chemically synthesized graphene sheets. Physica Status Solidi (B): Basic Research, 2014, 251, 2521-2524.	0.7	3
60	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. Journal of Physical Chemistry C, 2013, 117, 697-702.	1.5	36
61	Bond randomness induced magnon decoherence in a spin-ladder compound. Physical Review B, 2013, 87, .	1.1	12
62	Observation of conduction electron spin resonance in boron-doped diamond. Physical Review B, 2013, 87, .	1.1	13
63	From nanotubes to single crystals: Co doped TiO_2 . APL Materials, 2013, 1, 032111.	2.2	13
64	Determination of the magnetic order and the crystal symmetry in the multiferroic ground state of $\text{Ba}_2\text{CoGe}_2\text{O}_7$. Physical Review B, 2013, 87, .	1.1	27
65	Molecular and Spin Dynamics in the Paramagnetic Endohedral Fullerene $\text{Gd}_3\text{N}@C_{80}$. Journal of Physical Chemistry Letters, 2012, 3, 3291-3296.	2.1	34
66	Magnetic fluctuations above the Néel temperature in $\text{Ba}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Cl}$, a quasi-2D Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interaction. Physica Status Solidi (B): Basic Research, 2012, 249, 1004-1007.	0.7	7
67	Dual [proton]/[hole] mixed valence in a molecular metal: balancing chemical activity in the solid state by tapping into a molecular hole reservoir. Journal of Materials Chemistry, 2011, 21, 1516-1522.	6.7	11
68	Symmetry and structure of multiferroic $\text{Ba}_2\text{CoGe}_2\text{O}_7$. Physical Review B, 2011, 84, .	1.1	23
69	Low-temperature Dynamics of Magnons in a Spin-Ladder Compound. Physical Review Letters, 2011, 106, .	2.9	20
70	Pressure and temperature dependence of interlayer spin diffusion and electrical conductivity in the layered organic conductor $\text{Ba}_2\text{Cu}[\text{N}(\text{CN})_2]$. Physical Review B, 2010, 82, .	1.1	18
71	A Neutral Zwitterionic Molecular Solid. Chemistry - A European Journal, 2010, 16, 14051-14059.	1.7	36
72	Measurement of interlayer spin diffusion in the organic conductor , , Br. Physica B: Condensed Matter, 2010, 405, S168-S171.	1.3	9

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73	<p>Spin dynamics in the $S = \frac{1}{2} \frac{1}{2}$ bevelled="false"></mml:mn></mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>antiferromagnetic chain compounds</p></p>		