

BÄ;lint NÄ;frÄ;di

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2175891/publications.pdf>

Version: 2024-02-01

87
papers

2,059
citations

257101

24
h-index

264894

42
g-index

89
all docs

89
docs citations

89
times ranked

3592
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Environment International</i> , 2021, 154, 106595.	4.8	155
2	Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. <i>Small</i> , 2015, 11, 4824-4828.	5.2	151
3	Tuning of the Thermoelectric Figure of Merit of CH ₃ NH ₃ MI ₃ (Mâ•Pb,Sn) Photovoltaic Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11506-11510.	1.5	145
4	Optically switched magnetism in photovoltaic perovskite CH ₃ NH ₃ (Mn:Pb)I ₃ . <i>Nature Communications</i> , 2016, 7, 13406.	5.8	106
5	Controlled growth of CH ₃ NH ₃ PbI ₃ nanowires in arrays of open nanofluidic channels. <i>Scientific Reports</i> , 2016, 6, 19834.	1.6	81
6	Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. <i>ACS Nano</i> , 2021, 15, 4077-4084.	7.3	71
7	Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25204-25208.	1.5	61
8	Magnetic Fullerenes inside Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 97, 136801.	2.9	58
9	Towards electron spin resonance of mechanically exfoliated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2558-2561.	0.7	57
10	Ultrasensitive 1D field-effect phototransistors: CH ₃ NH ₃ PbI ₃ nanowire sensitized individual carbon nanotubes. <i>Nanoscale</i> , 2016, 8, 4888-4893.	2.8	54
11	Anisotropic transport properties of tungsten disulfide. <i>Scripta Materialia</i> , 2016, 114, 48-50.	2.6	53
12	Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. <i>ACS Photonics</i> , 2019, 6, 967-975.	3.2	49
13	The Role of Transport Agents in MoS ₂ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3918-3922.	1.5	44
14	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
15	Continuous-wave far-infrared ESR spectrometer for high-pressure measurements. <i>Journal of Magnetic Resonance</i> , 2008, 195, 206-210.	1.2	36
16	A Neutral Zwitterionic Molecular Solid. <i>Chemistry - A European Journal</i> , 2010, 16, 14051-14059.	1.7	36
17	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 697-702.	1.5	36
18	Electron spin resonance of single-walled carbon nanotubes and related structures. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3106-3110.	0.7	34

#	ARTICLE	IF	CITATIONS
19	Molecular and Spin Dynamics in the Paramagnetic Endohedral Fullerene Gd ₃ N@C ₈₀ . Journal of Physical Chemistry Letters, 2012, 3, 3291-3296.	2.1	34
20	Three-Dimensionally Enlarged Photoelectrodes by a Protogenetic Inclusion of Vertically Aligned Carbon Nanotubes into CH ₃ NH ₃ PbBr ₃ Single Crystals. Journal of Physical Chemistry C, 2017, 121, 13549-13556.	1.5	31
21	Room temperature manipulation of long lifetime spins in metallic-like carbon nanospheres. Nature Communications, 2016, 7, 12232.	5.8	28
22	Determination of the magnetic order and the crystal symmetry in the multiferroic ground state of Ba ₂ CoGeO ₆ . Scientific Reports, 2017, 7, 12232.	1.1	27
23	Clean, cleaved surfaces of the photovoltaic perovskite. Scientific Reports, 2017, 7, 695.	1.6	27
24	Microwave frequency modulation in continuous-wave far-infrared ESR utilizing a quasi-optical reflection bridge. Journal of Magnetic Resonance, 2008, 192, 265-268.	1.2	26
25	Supramolecular Approach to the Synthesis of [60]Fullerene~Metal Dithiocarbamate Complexes, {(M ^{II} (R ₂ dtc) ₂) ₂ } (M = Zn, Cd, Tl). Growth and Design, 2008, 8, 1161-1177.	1.4	23
26	Symmetry and structure of multiferroic Ba ₂ CoGeO ₆ . Physical Review B, 2008, 77, 114407.	1.1	23
27	Highly stable enzyme-mimicking nanocomposite of antioxidant activity. Journal of Colloid and Interface Science, 2019, 543, 174-182.	5.0	22
28	Kilogram Scale Crystallogensis of Halide Perovskites for Gamma Rays Dose Rate Measurements. Advanced Science, 2021, 8, 2001882.	5.6	21
29	Enhanced thermal stability and spin-lattice relaxation rate of N@C ₆₀ carbon nanotubes. Physical Review B, 2008, 77, 114407.	1.1	20
30	Low-Temperature Dynamics of Magnons in a Spin-Ladder Compound. Physical Review Letters, 2011, 106, 177202.	2.9	20
31	Evolution of two-dimensional antiferromagnetism with temperature and magnetic field in multiferroic Ba ₂ Mn ₂ O ₇ . Physical Review B, 2014, 89, 114407.	1.1	20
32	Dinuclear clathrochelate complexes with pendent cyano groups as metalloligands. Dalton Transactions, 2016, 45, 15507-15516.	1.6	19
33	Observation of interlayer spin diffusion and electrical conductivity in the layered organic conductors (BEDT-TTF) ₂ Cu[N(CN) ₂]. Physical Review B, 2014, 89, 114407.	1.1	18
34	Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. Energy Conversion and Management, 2020, 205, 112423.	4.4	18
35	Multifrequency ESR in Ba ₂ CoGeO ₆ . Physical Review B, 2009, 80, 114407.	1.1	17
36	Spin dynamics in the antiferromagnetic chain compounds S ₂ and S ₃ . Physical Review B, 2014, 89, 114407.	1.1	17

#	ARTICLE	IF	CITATIONS
37	Spin resonance in the ordered magnetic state of Ni ₅ (TeO ₃) ₄ Cl ₂ . Physical Review B, 2006, 74, .	1.1	15
38	Spin lifetime of itinerant electrons in chemically synthesized graphene multi-layers. Carbon, 2014, 74, 346-351.	5.4	15
39	Magnetostriction and Magnetostructural Domains in Antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review Letters, 2016, 116, 047001.	2.9	15
40	Mechanical response of CH ₃ NH ₃ PbI ₃ nanowires. Applied Physics Letters, 2018, 112, .	1.5	15
41	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
42	Characterizing the maximum number of layers in chemically exfoliated graphene. Scientific Reports, 2019, 9, 19480.	1.6	14
43	Observation of conduction electron spin resonance in boron-doped diamond. Physical Review B, 2013, 87, .	1.1	13
44	From nanotubes to single crystals: Co doped TiO ₂ . APL Materials, 2013, 1, 032111.	2.2	13
45	Electron Spin Dynamics of Two-Dimensional Layered Materials. Advanced Functional Materials, 2017, 27, 1604040.	7.8	13
46	Bond randomness induced magnon decoherence in a spin-ladder compound. Physical Review B, 2013, 87, .	1.1	12
47	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
48	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
49	Doped carbon nanotubes as a model system of biased graphene. Physical Review B, 2017, 96, .	1.1	11
50	Electron spin resonance in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2008, 245, 1975-1978.	0.7	10
51	Photodiode Response in a CH ₃ NH ₃ PbI ₃ /CH ₃ NH ₃ SnI ₃ Heterojunction. ACS Applied Materials & Interfaces, 2017, 9, 10198-10202.	4.0	10
52	square lattice antiferromagnetism in the orbitally quenched insulator MoOPO_4 . Physical Review B, 2017, 96, .	1.1	10
53	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58.	2.2	10
54	Hybrid halide perovskite neutron detectors. Scientific Reports, 2021, 11, 17159.	1.6	10

#	ARTICLE	IF	CITATIONS
55	Measurement of interlayer spin diffusion in the organic conductor , , Br. Physica B: Condensed Matter, 2010, 405, S168-S171.	1.3	9
56	Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. Catalysis Today, 2017, 284, 146-152.	2.2	9
57	La@C₈₂ as a spin-actïve filling of SWCNTs: ESR study of magnetic and photophysical properties. Physica Status Solidi (B): Basic Research, 2008, 245, 2042-2046.	0.7	8
58	Two-dimensional Magnetism in Î-(BEDT-TTF)2Cu[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
59	Crystal Structure of Magnetoelectric Ba₂MnGe₂O₇ at Room and Low Temperatures by Neutron Diffraction. Inorganic Chemistry, 2018, 57, 5089-5095.	1.9	8
60	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. ACS Nano, 2020, 14, 7492-7501.	7.3	8
61	Stability and electronic properties of magnetic peapods. Physica Status Solidi (B): Basic Research, 2008, 245, 2034-2037.	0.7	7
62	Magnetic fluctuations above the NÄel temperature in Î-(BEDT-TF)₂Cu[N(CN)₂]Cl, a quasi-2D Heisenberg antiferromagnet with Dzyaloshinskii-“Moriya interaction. Physica Status Solidi (B): Basic Research, 2012, 249, 1004-1007.	0.7	7
63	Magnetotransport studies of superconductingPr4Fe2As2Te1â~xO4. Physical Review B, 2016, 93, .	1.1	7
64	The low-temperature crystal structure of the multiferroic melilite Ca₂CoSi₂O₇. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 126-132.	0.5	7
65	Optical detection of charge dynamics in CH₃NH₃PbI₃/carbon nanotube composites. Nanoscale, 2017, 9, 17781-17787.	2.8	7
66	High frequency electron spin resonance study of peapods. Physica Status Solidi (B): Basic Research, 2008, 245, 2029-2033.	0.7	5
67	Transport, magnetic and vibrational properties of chemically exfoliated few-layer graphene. Physica Status Solidi (B): Basic Research, 2015, 252, 2438-2443.	0.7	5
68	Rapid thickness reading of CH₃NH₃PbI₃ nanowire thin films from color maps. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2017-2023.	0.8	5
69	Upper critical field, pressure-dependent superconductivity and electronic anisotropy of Sm₄Fe₂As₂Te_{1â~x}O_{4â~y}F_{1-y}. Journal of Physics Condensed Matter, 2016, 28, 115701.		
70	Dry-pressed anodized titania nanotube/CH3NH3PbI3 single crystal heterojunctions: The beneficial role of N doping. Ceramics International, 2019, 45, 10013-10020.	2.3	5
71	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
72	Metallic bundles of single-wall carbon nanotubes probed by electron spin resonance. Physica Status Solidi (B): Basic Research, 2007, 244, 3885-3889.	0.7	4

#	ARTICLE	IF	CITATIONS
73	Magnetic structure of the magnetoelectric material CaO_7 . Physical Review B, 2017, 95, .	1.1	4
74	Improved Alkali Intercalation of Carbonaceous Materials in Ammonia Solution. Physica Status Solidi (B): Basic Research, 2019, 256, 1900324.	0.7	4
75	Pressure-induced transformation of $\text{CH}_3\text{NH}_3\text{Pb}_3$: 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
76	Electron spin lifetime in chemically synthesized graphene sheets. Physica Status Solidi (B): Basic Research, 2014, 251, 2521-2524.	0.7	3
77	Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. Langmuir, 2017, 33, 9043-9049.	1.6	3
78	Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, $\text{NH}_3\text{CH}_2\text{CH}_2\text{NH}_3\text{Pb}_4$. CrystEngComm, 2018, 20, 3543-3549.	1.3	3
79	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe_3O_4 film on $\text{SrTiO}_3\text{:Nb}$ by v-MOKE and ferromagnetic resonance. Nanoscale, 2019, 11, 19870-19876.	2.8	3
80	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
81	Topological Analysis of the Experimental Electron Density in Multiferroic Antiferromagnet $\text{Ba}_2\text{MnGe}_2\text{O}_7$. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	3
82	Light-induced charge transfer at the $\text{CH}_3\text{NH}_3\text{Pb}_3/\text{TiO}_2$ interface—a low-temperature photo-electron paramagnetic resonance assay. JPhys Photonics, 2020, 2, 014007.	2.2	2
83	Photodetectors: Microengineered $\text{CH}_3\text{NH}_3\text{Pb}_3$ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature (Small) Tj ETQq1 1 05784314 rgBT /Overlock		
84	Anisotropic Elliott-Yafet theory and application to KC_8 potassium intercalated graphite. Physica Status Solidi (B): Basic Research, 2016, 253, 2505-2508.	0.7	1
85	Tuning Conductivity and Spin Dynamics in Few-Layer Graphene via In Situ Potassium Exposure. Physica Status Solidi (B): Basic Research, 2020, 257, 2000368.	0.7	1
86	Possibility of an unconventional spin state of Ir^{4+} in Ba_2IrO_4 single crystal. Physical Review B, 2016, 94, .	1.1	0
87	Frustration-induced one-dimensionality in the isosceles triangular antiferromagnetic lattice of Ir^{3+} (EDT-TTF- Ir) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 177 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")> Physical Review B, 2016, 94, .		