

Apoorva Chaturvedi

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,644
citations

218381

26
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288905

40
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43
all docs

43
docs citations

43
times ranked

4733
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . Advanced Functional Materials, 2016, 26, 1169-1177.	7.8	376
2	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, 1705509.	11.1	341
3	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	11.1	183
4	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. Science Advances, 2019, 5, eaav3780.	4.7	157
5	MoS ₂ for Ultrafast All-Optical Switching and Modulation of THz Fano Metaphotonic Devices. Advanced Optical Materials, 2017, 5, 1700762.	3.6	146
6	Preparation of Single-Layer MoS ₂ /i>Se ₂ (1- <i>x</i>)</i> and Mo <i>x</i> /i>W _{1-<i>x</i>} /i>S ₂ Nanosheets with High-Concentration Metallic 1T Phase. Small, 2016, 12, 1866-1874.	5.2	126
7	Metastable 1T ² -phase group VIB transition metal dichalcogenide crystals. Nature Materials, 2021, 20, 1113-1120.	13.3	119
8	Preparation of 1T ² -Phase ReS ₂ /i>Se ₂ (1- <i>x</i>)</i> (<i>x</i> = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 8563-8568.	6.6	104
9	Anomalous polarization switching and permanent retention in a ferroelectric ionic conductor. Materials Horizons, 2020, 7, 263-274.	6.4	88
10	Ferroelectric-field accelerated charge transfer in 2D CuInP ₂ S ₆ heterostructure for enhanced photocatalytic H ₂ evolution. Nano Energy, 2020, 76, 104972.	8.2	84
11	Few-layer NiPS ₃ nanosheets as bifunctional materials for Li-ion storage and oxygen evolution reaction. Nanoscale, 2018, 10, 4890-4896.	2.8	82
12	Unveiling two-dimensional TiS ₂ as an insertion host for the construction of high energy Li-ion capacitors. Journal of Materials Chemistry A, 2017, 5, 9177-9181.	5.2	76
13	Optical and electrical properties of two-dimensional palladium diselenide. Applied Physics Letters, 2019, 114, .	1.5	74
14	Magnetocaloric properties and critical behavior of high relative cooling power FeNiB nanoparticles. Journal of Applied Physics, 2014, 116, .	1.1	60
15	Ultrathin Ruddlesden-Popper Perovskite Heterojunction for Sensitive Photodetection. Small, 2019, 15, e1902890.	5.2	56
16	Light-Tunable 1T-TaS ₂ Charge-Density-Wave Oscillators. ACS Nano, 2018, 12, 11203-11210.	7.3	51
17	Two Dimensional TiS ₂ as a Promising Insertion Anode for Na-ion Battery. ChemistrySelect, 2018, 3, 524-528.	0.7	47
18	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH...-... Interactions. Angewandte Chemie - International Edition, 2018, 57, 8875-8880.	7.2	44

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19	Impact of C ₆ H ₄ X (X = F, N) and π-π Interactions on Tuning the Degree of Charge Transfer in F ₆ TNAP-Based Organic Binary Compound Single Crystals. <i>Crystal Growth and Design</i> , 2018, 18, 1776-1785.	1.4	40
20	Optogenetics inspired transition metal dichalcogenide neuristors for in-memory deep recurrent neural networks. <i>Nature Communications</i> , 2020, 11, 3211.	5.8	36
21	A universal method for rapid and large-scale growth of layered crystals. <i>SmartMat</i> , 2020, 1, e1011.	6.4	33
22	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016, 8, 5826-5834.	2.8	32
23	High energy Li-ion capacitors using two-dimensional TiSe _{0.6} S _{1.4} as insertion host. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19819-19825.	5.2	31
24	Room-Temperature Valley Polarization in Atomically Thin Semiconductors <i>via</i> Chalcogenide Alloying. <i>ACS Nano</i> , 2020, 14, 9873-9883.	7.3	30
25	Rapid synthesis of transition metal dichalcogenide few-layer thin crystals by the microwave-induced-plasma assisted method. <i>Journal of Crystal Growth</i> , 2016, 450, 140-147.	0.7	29
26	Trisulfide-Bond Acenes for Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13513-13521.	7.2	28
27	Agent-assisted VSSe ternary alloy single crystals as an efficient stable electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15714-15721.	5.2	26
28	Synthesis of SnS ₂ single crystals and its Li-storage performance with LiMn ₂ O ₄ cathode. <i>Applied Materials Today</i> , 2016, 5, 68-72.	2.3	19
29	Fe-Ni-Mn Nanoparticles for Magnetic Cooling Near Room Temperature. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4.	0.6	18
30	High power Na-ion capacitor with TiS ₂ as insertion host. <i>Scripta Materialia</i> , 2019, 161, 54-57.	2.6	18
31	Electrostatic Coupling in MoS ₂ /CuInP ₂ S ₆ Ferroelectric vdW Heterostructures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
32	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ (Adv. Funct. Mater. 8/2016). <i>Advanced Functional Materials</i> , 2016, 26, 1146-1146.	7.8	15
33	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH... Interactions. <i>Angewandte Chemie</i> , 2018, 130, 9013-9018.	1.6	11
34	Route of Irreversible Transformation in Layered Tin Thiophosphite and Enhanced Lithium Storage Performance. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	8
35	High-yield Exfoliation of Ultrathin 2D Ni ₃ Cr ₂ P ₂ S ₉ and Ni ₃ Cr ₂ P ₂ Se ₉ Nanosheets. <i>Small</i> , 2021, 17, e2006866.	5.2	8
36	Plasma-enhanced microwave solid-state synthesis of cadmium sulfide: reaction mechanism and optical properties. <i>Dalton Transactions</i> , 2015, 44, 13444-13449.	1.6	7

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37	Trisulfide-Bond Acenes for Organic Batteries. <i>Angewandte Chemie</i> , 2019, 131, 13647-13655.	1.6	7
38	Light-matter interactions in high quality manganese-doped two-dimensional molybdenum diselenide. <i>Science China Materials</i> , 2021, 64, 2507-2518.	3.5	6
39	Real-Time Electron Nanoscopy of Photovoltaic Absorber Formation from Kesterite Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 122-128.	2.5	5
40	Unusual Li-Storage Behaviour of Two-Dimensional ReS_2 Single Crystals. <i>Batteries and Supercaps</i> , 2018, 1, 69-74.	2.4	4
41	Exploring two dimensional $\text{Co}_{0.33}\text{In}_{2.67}\text{S}_{2.29}\text{Se}_{1.71}$ as alloy type negative electrode for Li-ion battery with olivine LiFePO_4 cathode. <i>Materials Today Energy</i> , 2018, 9, 19-26.	2.5	2
42	Innenrötitelbild: From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NHߞInteractions (<i>Angew. Chem.</i>) Tj	1.0	0