

Mohnish Pandey

List of Publications by Year in descending order

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26
papers

1,936
citations

471509

17
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. <i>2D Materials</i> , 2018, 5, 042002.	4.4	711
2	Two-Dimensional MXenes as Catalysts for Electrochemical Hydrogen Evolution: A Computational Screening Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13593-13598.	3.1	183
3	New Light-Harvesting Materials Using Accurate and Efficient Bandgap Calculations. <i>Advanced Energy Materials</i> , 2015, 5, 1400915.	19.5	124
4	Defect-Tolerant Monolayer Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2016, 16, 2234-2239.	9.1	111
5	Band Gap Tuning and Defect Tolerance of Atomically Thin Two-Dimensional Organic-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4346-4352.	4.6	107
6	Sulfide perovskites for solar energy conversion applications: computational screening and synthesis of the selected compound LaYS_3 . <i>Energy and Environmental Science</i> , 2017, 10, 2579-2593.	30.8	91
7	Efficient Charge Separation in 2D Janus van der Waals Structures with Built-in Electric Fields and Intrinsic n Doping. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24520-24526.	3.1	79
8	Two-Dimensional Metal Dichalcogenides and Oxides for Hydrogen Evolution: A Computational Screening Approach. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1577-1585.	4.6	75
9	Fundamental limitation of electrocatalytic methane conversion to methanol. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11152-11159.	2.8	73
10	Band structure engineered layered metals for low-loss plasmonics. <i>Nature Communications</i> , 2017, 8, 15133.	12.8	59
11	High-Throughput Computational Assessment of Previously Synthesized Semiconductors for Photovoltaic and Photoelectrochemical Devices. <i>ACS Energy Letters</i> , 2018, 3, 436-446.	17.4	51
12	Heats of formation of solids with error estimation: The mBEEF functional with and without fitted reference energies. <i>Physical Review B</i> , 2015, 91, .	3.2	33
13	Phase Transition of MoS_2 Bilayer Structures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3776-3780.	3.1	33
14	Shining Light on Sulfide Perovskites: LaYS_3 Material Properties and Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 3359-3369.	6.7	32
15	Definition of a scoring parameter to identify low-dimensional materials components. <i>Physical Review Materials</i> , 2019, 3, .	2.4	30
16	Atomically Thin Ordered Alloys of Transition Metal Dichalcogenides: Stability and Band Structures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23024-23029.	3.1	20
17	IV_2V_2 and IIIIV_2 Polytypes as Light Absorbers for Single Junction and Tandem Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17780-17786.	3.1	18
18	Size-selective electrocatalytic activity of $(\text{Pt})_n/\text{MoS}_2$ for oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 6389-6395.	4.1	16

#	ARTICLE	IF	CITATIONS
19	Promising quaternary chalcogenides as high-band-gap semiconductors for tandem photoelectrochemical water splitting devices: A computational screening approach. <i>Physical Review Materials</i> , 2018, 2, .	2.4	16
20	Increased Loading of Eu ³⁺ Ions in Monazite LaVO ₄ Nanocrystals via Pressure-Driven Phase Transitions. <i>Crystal Growth and Design</i> , 2013, 13, 2344-2349.	3.0	15
21	Band-gap engineering of functional perovskites through quantum confinement and tunneling. <i>Physical Review B</i> , 2015, 91, .	3.2	13
22	Reply to comment on "The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals"™. <i>2D Materials</i> , 2019, 6, 048002.	4.4	12
23	Stabilization and growth of non-native nanocrystals at low and atmospheric pressures. <i>Journal of Chemical Physics</i> , 2012, 136, 044703.	3.0	11
24	Stabilization of Rocksalt CdSe at Atmospheric Pressures via Pseudomorphic Growth. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7643-7647.	3.1	10
25	Hydroxylation induced stabilization of near-surface rocksalt nanostructure on wurtzite ZnO structure. <i>Journal of Chemical Physics</i> , 2013, 138, 224701.	3.0	5
26	Role of Long-Range Dispersion Forces in Modeling of MXenes as Battery Electrode Materials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4064-4071.	3.1	5