

# 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	Reply to comment on "The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals"™. 2D Materials, 2019, 6, 048002.	4.4	12
2	Role of Long-Range Dispersion Forces in Modeling of MXenes as Battery Electrode Materials. Journal of Physical Chemistry C, 2019, 123, 4064-4071.	3.1	5
3	Shining Light on Sulfide Perovskites: LaYS <sub>3</sub> Material Properties and Solar Cells. Chemistry of Materials, 2019, 31, 3359-3369.	6.7	32
4	Definition of a scoring parameter to identify low-dimensional materials components. Physical Review Materials, 2019, 3, .	2.4	30
5	Fundamental limitation of electrocatalytic methane conversion to methanol. Physical Chemistry Chemical Physics, 2018, 20, 11152-11159.	2.8	73
6	High-Throughput Computational Assessment of Previously Synthesized Semiconductors for Photovoltaic and Photoelectrochemical Devices. ACS Energy Letters, 2018, 3, 436-446.	17.4	51
7	Efficient Charge Separation in 2D Janus van der Waals Structures with Built-in Electric Fields and Intrinsic "n Doping. Journal of Physical Chemistry C, 2018, 122, 24520-24526.	3.1	79
8	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. 2D Materials, 2018, 5, 042002.	4.4	711
9	Promising quaternary chalcogenides as high-band-gap semiconductors for tandem photoelectrochemical water splitting devices: A computational screening approach. Physical Review Materials, 2018, 2, .	2.4	16
10	Band structure engineered layered metals for low-loss plasmonics. Nature Communications, 2017, 8, 15133.	12.8	59
11	Two-Dimensional MXenes as Catalysts for Electrochemical Hydrogen Evolution: A Computational Screening Study. Journal of Physical Chemistry C, 2017, 121, 13593-13598.	3.1	183
12	IV <sub>2</sub> and III <sub>2</sub> Polytypes as Light Absorbers for Single Junction and Tandem Photovoltaic Devices. Journal of Physical Chemistry C, 2017, 121, 17780-17786.	3.1	18
13	Sulfide perovskites for solar energy conversion applications: computational screening and synthesis of the selected compound LaYS <sub>3</sub> . Energy and Environmental Science, 2017, 10, 2579-2593.	30.8	91
14	Defect-Tolerant Monolayer Transition Metal Dichalcogenides. Nano Letters, 2016, 16, 2234-2239.	9.1	111
15	Atomically Thin Ordered Alloys of Transition Metal Dichalcogenides: Stability and Band Structures. Journal of Physical Chemistry C, 2016, 120, 23024-23029.	3.1	20
16	Band Gap Tuning and Defect Tolerance of Atomically Thin Two-Dimensional Organic-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2016, 7, 4346-4352.	4.6	107
17	Size-selective electrocatalytic activity of (Pt) <sub>n</sub> /MoS <sub>2</sub> for oxygen reduction reaction. Catalysis Science and Technology, 2016, 6, 6389-6395.	4.1	16
18	Phase Transition of MoS <sub>2</sub> Bilayer Structures. Journal of Physical Chemistry C, 2016, 120, 3776-3780.	3.1	33

#	ARTICLE	IF	CITATIONS
19	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
20	Band-gap engineering of functional perovskites through quantum confinement and tunneling. <i>Physical Review B</i> , 2015, 91, .	3.2	13
21	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
22	New Light Harvesting Materials Using Accurate and Efficient Bandgap Calculations. <i>Advanced Energy Materials</i> , 2015, 5, 1400915.	19.5	124
23	Stabilization of Rocksalt CdSe at Atmospheric Pressures via Pseudomorphic Growth. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7643-7647.	3.1	10
24	Increased Loading of Eu <sup>3+</sup> Ions in Monazite LaVO <sub>4</sub> Nanocrystals via Pressure-Driven Phase Transitions. <i>Crystal Growth and Design</i> , 2013, 13, 2344-2349.	3.0	15
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	Stabilization and growth of non-native nanocrystals at low and atmospheric pressures. <i>Journal of Chemical Physics</i> , 2012, 136, 044703.	3.0	11