

Appala N Gandhi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,615
citations

758635

12
h-index

642321

23
g-index

25
all docs

25
docs citations

25
times ranked

4496
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. Nano Letters, 2016, 16, 7718-7725.	4.5	1,079
2	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. ACS Energy Letters, 2017, 2, 1035-1042.	8.8	505
3	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. Nano Energy, 2017, 35, 331-340.	8.2	324
4	Is NiCo ₂ S ₄ Really a Semiconductor?. Chemistry of Materials, 2015, 27, 6482-6485.	3.2	203
5	Thermoelectric Performance of the MXenes M ₂ CO ₂ (M = Ti, Zr, or Hf). Chemistry of Materials, 2016, 28, 1647-1652.	3.2	132
6	Thermal conductivity of bulk and monolayer MoS ₂ . Europhysics Letters, 2016, 113, 36002.	0.7	117
7	WS ₂ As an Excellent High-Temperature Thermoelectric Material. Chemistry of Materials, 2014, 26, 6628-6637.	3.2	92
8	A OD Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1809166.	7.8	32
9	Electron dominated thermoelectric response in MNiSn (M: Ti, Zr, Hf) half-Heusler alloys. Physical Chemistry Chemical Physics, 2016, 18, 14017-14022.	1.3	25
10	Thermoelectric Properties of the XCoSb (X: Ti,Zr,Hf) Half-Heusler alloys. Physica Status Solidi (B): Basic Research, 2017, 254, 1700419.	0.7	14
11	Universal binding energy relation for cleaved and structurally relaxed surfaces. Journal of Physics Condensed Matter, 2014, 26, 055006.	0.7	13
12	Potential of B/Al-Doped Silicene Electrodes in Na/K-Ion Batteries. Advanced Theory and Simulations, 2018, 1, 1800017.	1.3	12
13	Low lattice thermal conductivity and its role in the remarkable thermoelectric performance of newly predicted SiS ₂ and SiSe ₂ monolayers. Computational Materials Science, 2022, 201, 110931.	1.4	12
14	Cenosphere formation from heavy fuel oil: a numerical analysis accounting for the balance between porous shells and internal pressure. Combustion Theory and Modelling, 2016, 20, 154-172.	1.0	10
15	B-Doping-Enhanced Stability of Phosphorene/Graphene Heterostructures. Advanced Theory and Simulations, 2019, 2, 1800176.	1.3	9
16	Raman spectra characterization of boron carbide using first-principles calculations. Physica B: Condensed Matter, 2022, 633, 413738.	1.3	8
17	3D continuum phonon model for group-IV 2D materials. Beilstein Journal of Nanotechnology, 2017, 8, 1345-1356.	1.5	6
18	Phosphorene as cathode for metal-ion batteries: Importance of F decoration. Materials Today Energy, 2018, 10, 141-145.	2.5	5

#	ARTICLE	IF	CITATIONS
19	Thermal response in van der Waals heterostructures. Journal of Physics Condensed Matter, 2017, 29, 035504.	0.7	4
20	Reconstructive Phase Transformations in Body-Centered Cubic Titanium. Physica Status Solidi (B): Basic Research, 2020, 257, 2000193.	0.7	4
21	Oxygen Doping Enhanced Lithiation in MgCl ₂ for Battery Applications. Physica Status Solidi (B): Basic Research, 2019, 256, 1900166.	0.7	3
22	Martensitic transformations of β -phase in zirconium. Journal of Applied Physics, 2021, 129, .	1.1	3
23	Strain and electric field-modulated indirect-to-direct band transition of monolayer GaInS ₂ . Journal of Computational Electronics, 2022, 21, 227-234.	1.3	3
24	Voltage Induced Molecular Motors Constitute the Smallest Self-Assembled Molecular Electronic Counter. Advanced Materials Interfaces, 2020, 7, 2000383.	1.9	0