Thanayut Kaewmaraya

List of Publications by Year
in descending order

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Version: 2024-02-01

39 papers	982 citations	394421 19 h-index	454955 30 g-index
39 all docs	39 docs citations	39 times ranked	1236 citing authors

#	Article	IF	Citations
1	Two-dimensional titanium carbide (Ti₃C₂T_x) MXenes to inhibit the shuttle effect in sodium sulfur batteries. Physical Chemistry Chemical Physics, 2022, 24, 4187-4195.	2.8	10
2	Elucidating Synergistic Mechanisms of Adsorption and Electrocatalysis of Polysulfides on Double-Transition Metal MXenes for Naâ€“S Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10298-10307.	8.0	18
3	Room temperature NO2 sensing performance of a-C-decorated TeO2 nanowires. Sensors and Actuators B: Chemical, 2022, 363, 131853.	7.8	12
4	Novel green phosphorene as a superior chemical gas sensing material. Journal of Hazardous Materials, 2021, 401, 123340.	12.4	71
5	Scavenging properties of yttrium nitride monolayer towards toxic sulfur gases. Applied Surface Science, 2021, 537, 147711.	6.1	8
6	Electronic structures and optical properties of nanoporous complex oxide 12CaOÂ·7Al2O3 (C12A7) under high pressure. Computational Materials Science, 2021, 194, 110456.	3.0	3
7	A manganese hexacyanoferrate framework with enlarged ion tunnels and twoâ€species redox reaction for aqueous Al-ion batteries. Nano Energy, 2021, 84, 105945.	16.0	54
8	Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation. Journal of Power Sources, 2021, 513, 230556.	7.8	45
9	Conversion of CO₂ into Formic Acid on Transition Metal-Porphyrin-like Graphene: First Principles Calculations. ACS Omega, 2021, 6, 27045-27051.	3.5	3
10	Novel BCN-phosphorene bilayer: Dependence of carbon doping on band offsets for potential photovoltaic applications. Applied Surface Science, 2020, 504, 144327.	6.1	13
11	Extrinsic Doping in Group IV Hexagonal-Diamond-Type Crystals. Journal of Physical Chemistry C, 2020, 124, 17290-17298.	3.1	5
12	Efficient suppression of the shuttle effect in Naâ€“S batteries with an As₂S₃ anchoring monolayer. Physical Chemistry Chemical Physics, 2020, 22, 27300-27307.	2.8	20
13	Structural Phase Transitions, Electronic Properties, and Hardness of RuB₄ under High Pressure in Comparison with FeB₄ and OsB₄. Journal of Physical Chemistry C, 2020, 124, 14804-14810.	3.1	20
14	The quantum confined Stark effect in N-doped ZnO/ZnO/N-doped ZnO nanostructures for infrared and terahertz applications. Nanotechnology, 2020, 31, 445207.	2.6	8
15	The study of structural, morphological and optical properties of (Al, Ga)-doped ZnO: DFT and experimental approaches. Applied Surface Science, 2019, 480, 621-635.	6.1	48
16	Enhanced thermoelectric properties of N-doped ZnO and SrTiO3: A first-principles study. Applied Surface Science, 2018, 446, 47-58.	6.1	26
17	Defected and Functionalized Germanene-based Nanosensors under Sulfur Comprising Gas Exposure. ACS Sensors, 2018, 3, 867-874.	7.8	53
18	Adsorption characteristics of DNA nucleobases, aromatic amino acids and heterocyclic molecules on silicene and germanene monolayers. Sensors and Actuators B: Chemical, 2018, 255, 2713-2720.	7.8	56

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19	Electronic Properties of hâ€BCNâ€“Blue Phosphorene vanâ€…derâ€…Waals Heterostructures. ChemPhysChem, 2018, 19, 612-618.	2.1	14
20	The ideal commensurate value of Sc and the superconducting phase under high pressure. Journal of Applied Physics, 2018, 124, 225901.	2.5	23
21	Graphitic carbon nitride nano sheets functionalized with selected transition metal dopants: an efficient way to store CO₂. Nanotechnology, 2018, 29, 415502.	2.6	30
22	Drastic Improvement in Gas-Sensing Characteristics of Phosphorene Nanosheets under Vacancy Defects and Elemental Functionalization. Journal of Physical Chemistry C, 2018, 122, 20186-20193.	3.1	60
23	Accurate Estimation of Band Offsets in Group IV Polytype Junctions: A First-Principles Study. Journal of Physical Chemistry C, 2017, 121, 5820-5828.	3.1	22
24	Functionalized carbon nitride (g-CN) monolayer as a promising energy storage material: A density functional theory study. Applied Surface Science, 2017, 419, 708-712.	6.1	22
25	Improved sensing characteristics of methane over ZnO nano sheets upon implanting defects and foreign atoms substitution. Nanotechnology, 2017, 28, 415502.	2.6	17
26	Crystal Phase Effects in Si Nanowire Polytypes and Their Homojunctions. Nano Letters, 2016, 16, 5694-5700.	9.1	38
27	Defect and Substitution-Induced Silicene Sensor to Probe Toxic Gases. Journal of Physical Chemistry C, 2016, 120, 25256-25262.	3.1	81
28	Dynamic compression of dense oxide (Gd3Ga5O12) from 0.4 to 2.6â€‰TPa: Universal Hugoniot of fluid metals. Scientific Reports, 2016, 6, 26000.	3.3	16
29	A new, layered monoclinic phase of Co₃O₄ at high pressure. Physical Chemistry Chemical Physics, 2015, 17, 19957-19961.	2.8	6
30	Revealing an unusual transparent phase of superhard iron tetraboride under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17050-17053.	7.1	23
31	Electronic structure and ionic diffusion of green battery cathode material: Mg2Mo6S8. Solid State Ionics, 2014, 261, 17-20.	2.7	23
32	Strain-induced tunability of optical and photocatalytic properties of ZnO mono-layer nanosheet. Computational Materials Science, 2014, 91, 38-42.	3.0	22
33	Atomistic study of promising catalyst and electrode material for memory capacitors: Platinum oxides. Computational Materials Science, 2013, 79, 804-810.	3.0	5
34	Functionalization of hydrogenated silicene with alkali and alkaline earth metals for efficient hydrogen storage. Physical Chemistry Chemical Physics, 2013, 15, 18900.	2.8	45
35	Molecular dynamics study of amorphous Ga-doped In2O3: A promising material for phase change memory devices. Applied Physics Letters, 2013, 103, .	3.3	11
36	Hybrid density functional study of electronic and optical properties of phase change memory material: Ge2Sb2Te5. Journal of Applied Physics, 2013, 113, 033510.	2.5	13

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37	Structural and Vibrational Properties of Layered Data Storage Material: Ge₂Sb₂Te₅. Science of Advanced Materials, 2013, 5, 1493-1497.	0.7	10
38	Water adsorption on ZnO(101Ì„0): The role of intrinsic defects. Europhysics Letters, 2012, 97, 17014.	2.0	15
39	Theoretical investigation of xenon-hydrogen solids under pressure usingab initioDFT and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math>calculations. Physical Review B, 2011, 84, .	3.2	13