Jiraroj T-Thienprasert

List of Publications by Year
in descending order

47 papers	583 citations	759233 12 h-index	677142 22 g-index
49 all docs	49 docs citations	49 times ranked	808 citing authors

#	Article	IF	Citations
1	Effect of native point defects on the photocatalytic performance of ZnIn2S4. Physica B: Condensed Matter, 2022, 630, 413674.	2.7	2
2	Towards a new packing pattern of Li adsorption in two-dimensional pentagonal BCN. Physical Chemistry Chemical Physics, 2022, 24, 13194-13200.	2.8	8
3	Electric field- and strain-induced bandgap modulation in bilayer C2N. Applied Physics Letters, 2022, 120, .	3.3	4
4	Effects of Waste-Derived ZnO Nanoparticles against Growth of Plant Pathogenic Bacteria and Epidermoid Carcinoma Cells. Crystals, 2022, 12, 779.	2.2	9
5	Direct conversion of carboxylic acid to olefins over Pt-loaded, oxygen-deficient alkali hexatitanate catalysts with ketonization-hydrogenation-dehydration activity. Catalysis Today, 2021, 375, 418-428.	4.4	4
6	Hybridâ€Functional Study of Native Point Defects and Ti/Fe Impurities in Î±â€Al₂O₃. Physica Status Solidi (B): Basic Research, 2021, 258, 2000498.	1.5	1
7	Development of magnetic recyclable spinel photocatalysts with enhanced sunlightâ€driven degradation of industrial dyes. Journal of the American Ceramic Society, 2021, 104, 3695-3714.	3.8	1
8	Piezoelectric and electronic properties of hydrogenated penta-BCN: A computational study. Journal of Applied Physics, 2021, 129, 095101.	2.5	11
9	Intervalence charge transfer of Ti and Fe defects in blue kyanite. Journal of the Korean Physical Society, 2021, 78, 671-678.	0.7	0
10	Photocatalytic performance of Feâ€substituted ZnAl₂O₄ powders under sunlight irradiation on degradation of industrial dyes. International Journal of Applied Ceramic Technology, 2021, 18, 1125-1143.	2.1	5
11	Strain engineering and thermal conductivity of a penta-BCN monolayer: a computational study. Journal Physics D: Applied Physics, 2021, 54, 355301.	2.8	13
12	Large Scale Synthesis of Green Synthesized Zinc Oxide Nanoparticles from Banana Peel Extracts and Their Inhibitory Effects against Colletotrichum sp., Isolate KUFC 021, Causal Agent of Anthracnose on Dendrobium Orchid. Journal of Nanomaterials, 2021, 2021, 1-10.	2.7	9
13	Utilization of Cratoxylum formosum crude extract for synthesis of ZnO nanosheets: Characterization, biological activities and effects on gene expression of nonmelanoma skin cancer cell. Biomedicine and Pharmacotherapy, 2020, 130, 110552.	5.6	27
14	Cation exchange in Niâ€“Cuâ€“Zn aluminate spinels revealed by EXAFS. Journal of Solid State Chemistry, 2020, 292, 121695.	2.9	5
15	Energetics and optical properties of carbon impurities in rutile TiO2. RSC Advances, 2020, 10, 19648-19654.	3.6	2
16	Firstâ€Principles Study of Chromium Defects in Î±â€Al₂O₃: The Origin of Red Color in Ruby. Physica Status Solidi (B): Basic Research, 2020, 257, 2000159.	1.5	4
17	Green synthesized ZnO nanosheets from banana peel extract possess anti-bacterial activity and anti-cancer activity. Materials Today Communications, 2020, 24, 101224.	1.9	31
18	Effect of calcination temperature on structural and optical properties of MAl2O4 (M = Ni, Cu, Zn) aluminate spinel nanoparticles. Journal of Advanced Ceramics, 2019, 8, 352-366.	17.4	96

#	Article	IF	Citations
19	Miniaturized Metalens Based Optical Tweezers on Liquid Crystal Droplets for Lab-on-a-Chip Optical Motors. Crystals, 2019, 9, 515.	2.2	15
20	Hybrid-Functional Study of Native Defects and W/Mo-Doped in Monoclinic-Bismuth Vanadate. Journal of Physical Chemistry C, 2019, 123, 14508-14516.	3.1	9
21	Energetics of native defects in ZnRh2O4 spinel from hybrid density functional calculations. Journal of Applied Physics, 2019, 125, .	2.5	3
22	Stacking stability of C2N bilayer nanosheet. Scientific Reports, 2019, 9, 6861.	3.3	9
23	Defect formations and pH-dependent kinetics in krÃ¶hnkite Na2Fe(SO4)2Â·2H2O based cathode for sodium-ion batteries: Resembling synthesis conditions through chemical potential landscape. Nano Energy, 2019, 55, 123-134.	16.0	13
24	Optical properties and versatile photocatalytic degradation ability of MAl2O4 (Mâ€‰=â€‰Ni, Cu, Zn) aluminate spinel nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 8995-9006.	2.2	40
25	Magnetic states and intervalence charge transfer of Ti and Fe defects in Î±-Al2O3: The origin of the blue in sapphire. Acta Materialia, 2018, 143, 248-256.	7.9	10
26	Structural deformation of nanomembranes in pressurized blister test. Materials Today: Proceedings, 2018, 5, 11051-11059.	1.8	0
27	Local structure of stoichiometric and oxygen-deficient A2Ti6O13 (Aâ€‰=â€‰Li, Na, and K) studied by X-ray absorption spectroscopy and first-principles calculations. Journal of Applied Physics, 2018, 124, 155101.	2.5	11
28	Self-trapped holes in BaTiO3. Journal of Applied Physics, 2018, 124, .	2.5	12
29	Identification of Mn site in Mn-doped SrTiO 3 : First principles study. Ceramics International, 2017, 43, S381-S385.	4.8	14
30	Ga acceptor defects in SnO 2 revisited: A hybrid functional study. Ceramics International, 2017, 43, S364-S368.	4.8	6
31	Mechanistic study of Na-ion diffusion and small polaron formation in KrÃ¶hnkite Na₂Fe(SO₄)₂Â·2H₂O based cathode materials. Journal of Materials Chemistry A, 2017, 5, 21726-21739.	10.3	18
32	Identification of hydrogen defects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>by	3.2	12
33	Energetics and optical properties of nitrogen impurities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> from hybrid density-functional calculations. Physical Review B, 2017, 95, .	3.2	12
34	Reassignment of O-related infrared absorption peaks in CdSe. Ceramics International, 2017, 43, S359-S363.	4.8	0
35	Calculated XANES Spectra of Cation Off-Centering in Bi(Mg_{0.5}Ti_{0.5})O₃. Ferroelectrics, 2016, 490, 159-166.	0.6	2
36	First-principles study of Bi and Al in orthorhombic PbZrO3. Computational Materials Science, 2016, 115, 99-103.	3.0	8

#	Article	IF	Citations
37	Identification of nitrogen acceptor in Cu2O: First-principles study. Applied Physics Letters, 2015, 107, .	3.3	17
38	First principles study of Ca in BaTiO₃and Bi_{0.5}Na_{0.5}TiO₃. Philosophical Magazine, 2015, 95, 3785-3797.	1.6	4
39	First-principles Study of Antisite Defects in Orthorhombic PbZrO3. Integrated Ferroelectrics, 2014, 156, 86-92.	0.7	4
40	Effects of Mg Local Structure on Mg K-edge XANES Spectra of MgxZn1-xO Alloy: A First-principles Study. Integrated Ferroelectrics, 2014, 156, 72-78.	0.7	0
41	Theoretical Study of Optical Properties of Native Point Defects in Î±-Al₂O₃. Integrated Ferroelectrics, 2014, 156, 79-85.	0.7	14
42	First principles calculations of Hydrogenâ€"Titanium vacancy complexes in SrTiO3. Ceramics International, 2013, 39, S273-S276.	4.8	4
43	Nitrogen pair â^' hydrogen complexes in ZnO and p-type doping.. Materials Research Society Symposia Proceedings, 2012, 1394, 27.	0.1	5
44	Identification of hydrogen defects in SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>by first-principles local vibration mode calculations. Physical Review B, 2012, 85, .	3.2	20
45	XAS study on copper red in ancient glass beads from Thailand. Analytical and Bioanalytical Chemistry, 2011, 399, 3033-3040.	3.7	35
46	X-ray absorption spectroscopy of indium nitride, indium oxide, and their alloys. Computational Materials Science, 2010, 49, S37-S42.	3.0	5
47	Structure of the hydrated Ca2+ and Clâ^': Combined X-ray absorption measurements and QM/MM MD simulations study. Physical Chemistry Chemical Physics, 2010, 12, 10876.	2.8	49