

Jiraroj T-Thienprasert

List of Publications by Year in descending order

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Version: 2024-02-01

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 calcination temperature on structural and optical properties of MAI ₂ O ₄ (M = Ni, Cu, Zn) aluminate spinel nanoparticles. Journal of Advanced Ceramics, 2019, 8, 352-366.	17.4	96
2	Structure of the hydrated Ca ²⁺ and Cl ⁻ : Combined X-ray absorption measurements and QM/MM MD simulations study. Physical Chemistry Chemical Physics, 2010, 12, 10876.	2.8	49
3	Optical properties and versatile photocatalytic degradation ability of MAI ₂ O ₄ (M = Ni, Cu, Zn) aluminate spinel nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 8995-9006.	2.2	40
4	XAS study on copper red in ancient glass beads from Thailand. Analytical and Bioanalytical Chemistry, 2011, 399, 3033-3040.	3.7	35
5	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
6	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
7	Identification of hydrogen defects in SrTiO ₃ by first-principles local vibration mode calculations. Physical Review B, 2012, 85, .	3.2	20
8	Mechanistic study of Na-ion diffusion and small polaron formation in Kr ⁺ hnikite Na ₂ Fe(SO ₄) ₂ ·2H ₂ O based cathode materials. Journal of Materials Chemistry A, 2017, 5, 21726-21739.	10.3	18
9	Identification of nitrogen acceptor in Cu ₂ O: First-principles study. Applied Physics Letters, 2015, 107, .	3.3	17
10	Miniaturized Metalens Based Optical Tweezers on Liquid Crystal Droplets for Lab-on-a-Chip Optical Motors. Crystals, 2019, 9, 515.	2.2	15
11	Theoretical Study of Optical Properties of Native Point Defects in Al_2O_3 . Integrated Ferroelectrics, 2014, 156, 79-85.	0.7	14
12	Identification of Mn site in Mn-doped SrTiO ₃ : First principles study. Ceramics International, 2017, 43, S381-S385.	4.8	14
13	Defect formations and pH-dependent kinetics in kr ⁺ hnikite Na ₂ Fe(SO ₄) ₂ ·2H ₂ O based cathode for sodium-ion batteries: Resembling synthesis conditions through chemical potential landscape. Nano Energy, 2019, 55, 123-134.	16.0	13
14	Strain engineering and thermal conductivity of a penta-BCN monolayer: a computational study. Journal Physics D: Applied Physics, 2021, 54, 355301.	2.8	13
15	Identification of hydrogen defects in Al_2O_3 by first-principles local vibration mode calculations. Physical Review B, 2012, 85, .	3.2	12
16	Energetics and optical properties of nitrogen impurities in SrTiO_3 from hybrid density-functional calculations. Physical Review B, 2017, 95, .	3.2	12
17	Self-trapped holes in BaTiO ₃ . Journal of Applied Physics, 2018, 124, .	2.5	12
18	Local structure of stoichiometric and oxygen-deficient A ₂ Ti ₆ O ₁₃ (A = Li, Na, and K) studied by X-ray absorption spectroscopy and first-principles calculations. Journal of Applied Physics, 2018, 124, 155101.	2.5	11

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19	Piezoelectric and electronic properties of hydrogenated penta-BCN: A computational study. Journal of Applied Physics, 2021, 129, 095101.	2.5	11
20	Magnetic states and intervalence charge transfer of Ti and Fe defects in $\hat{\Gamma}$ -Al ₂ O ₃ : The origin of the blue in sapphire. Acta Materialia, 2018, 143, 248-256.	7.9	10
21	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
22	Stacking stability of C ₂ N bilayer nanosheet. Scientific Reports, 2019, 9, 6861.	3.3	9
23	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
24	Effects of Waste-Derived ZnO Nanoparticles against Growth of Plant Pathogenic Bacteria and Epidermoid Carcinoma Cells. Crystals, 2022, 12, 779.	2.2	9
25	First-principles study of Bi and Al in orthorhombic PbZrO ₃ . Computational Materials Science, 2016, 115, 99-103.	3.0	8
26	Towards a new packing pattern of Li adsorption in two-dimensional pentagonal BCN. Physical Chemistry Chemical Physics, 2022, 24, 13194-13200.	2.8	8
27	Ga acceptor defects in SnO ₂ revisited: A hybrid functional study. Ceramics International, 2017, 43, S364-S368.	4.8	6
28	X-ray absorption spectroscopy of indium nitride, indium oxide, and their alloys. Computational Materials Science, 2010, 49, S37-S42.	3.0	5
29	Nitrogen pair $\hat{\Gamma}$ hydrogen complexes in ZnO and p-type doping. Materials Research Society Symposia Proceedings, 2012, 1394, 27.	0.1	5
30	Cation exchange in Ni ²⁺ -Cu ²⁺ -Zn aluminate spinels revealed by EXAFS. Journal of Solid State Chemistry, 2020, 292, 121695.	2.9	5
31	Photocatalytic performance of Fe ²⁺ -substituted ZnAl ₂ O ₄ powders under sunlight irradiation on degradation of industrial dyes. International Journal of Applied Ceramic Technology, 2021, 18, 1125-1143.	2.1	5
32	First principles calculations of Hydrogen ⁺ -Titanium vacancy complexes in SrTiO ₃ . Ceramics International, 2013, 39, S273-S276.	4.8	4
33	First-principles Study of Antisite Defects in Orthorhombic PbZrO ₃ . Integrated Ferroelectrics, 2014, 156, 86-92.	0.7	4
34	First principles study of Ca in BaTiO ₃ and Bi _{0.5} Na _{0.5} TiO ₃ . Philosophical Magazine, 2015, 95, 3785-3797.	1.6	4
35	First-Principles Study of Chromium Defects in $\hat{\Gamma}$ -Al ₂ O ₃ : The Origin of Red Color in Ruby. Physica Status Solidi (B): Basic Research, 2020, 257, 2000159.	1.5	4
36	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

#	ARTICLE	IF	CITATIONS
37	Electric field- and strain-induced bandgap modulation in bilayer C2N. Applied Physics Letters, 2022, 120, .	3.3	4
38	Energetics of native defects in ZnRh ₂ O ₄ spinel from hybrid density functional calculations. Journal of Applied Physics, 2019, 125, .	2.5	3
39	Calculated XANES Spectra of Cation Off-Centering in Bi(Mg _{0.5} Ti _{0.5})O ₃ . Ferroelectrics, 2016, 490, 159-166.	0.6	2
40	Energetics and optical properties of carbon impurities in rutile TiO ₂ . RSC Advances, 2020, 10, 19648-19654.	3.6	2
41	Effect of native point defects on the photocatalytic performance of ZnIn ₂ S ₄ . Physica B: Condensed Matter, 2022, 630, 413674.	2.7	2
42	Hybrid Functional Study of Native Point Defects and Ti/Fe Impurities in Al ₂ O ₃ . Physica Status Solidi (B): Basic Research, 2021, 258, 2000498.	1.5	1
43	Development of magnetic recyclable spinel photocatalysts with enhanced sunlight-driven degradation of industrial dyes. Journal of the American Ceramic Society, 2021, 104, 3695-3714.	3.8	1
44	Effects of Mg Local Structure on Mg K-edge XANES Spectra of Mg _x Zn _{1-x} O Alloy: A First-principles Study. Integrated Ferroelectrics, 2014, 156, 72-78.	0.7	0
45	Structural deformation of nanomembranes in pressurized blister test. Materials Today: Proceedings, 2018, 5, 11051-11059.	1.8	0
46	Intervalence charge transfer of Ti and Fe defects in blue kyanite. Journal of the Korean Physical Society, 2021, 78, 671-678.	0.7	0
47	Reassignment of O-related infrared absorption peaks in CdSe. Ceramics International, 2017, 43, S359-S363.	4.8	0