Van An Dinh

List of Publications by Year
in descending order

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68	2,213	430874	223800
papers	citations	18 h-index	46 g-index

72	72	72	2288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First-principles theory of dilute magnetic semiconductors. Reviews of Modern Physics, 2010, 82, 1633-1690.	45.6	959
2	Theory of ferromagnetic semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 15-32.	1.8	195
3	Materials Design of Transparent and Half-Metallic Ferromagnets of MgO, SrO and BaO without Magnetic Elements. Journal of the Physical Society of Japan, 2004, 73, 2952-2954.	1.6	121
4	Hybrid functional study of the NASICON-type Na₃V₂(PO₄)₃: crystal and electronic structures, and polaronâ€“Na vacancy complex diffusion. Physical Chemistry Chemical Physics, 2015, 17, 30433-30439.	2.8	84
5	Computational nano-materials design for high- ferromagnetism in wide-gap magnetic semiconductors. Journal of Magnetism and Magnetic Materials, 2007, 310, 2070-2077.	2.3	68
6	Exchange Interaction and Tc in Alkaline-Earth-Metal-Oxide-Based DMS without Magnetic Impurities: First Principle Pseudo-SIC and Monte Carlo Calculation. Journal of the Physical Society of Japan, 2006, 75, 093705.	1.6	54
7	Potential anodic applications of 2D MoS2 for K-ion batteries. Journal of Alloys and Compounds, 2021, 865, 158782.	5.5	38
8	Na-ion diffusion in a NASICON-type solid electrolyte: a density functional study. Physical Chemistry Chemical Physics, 2016, 18, 27226-27231.	2.8	36
9	Dilute magnetic semiconductors based on wide bandgap SiO2 with and without transition metal elements. Solid State Communications, 2005, 136, 1-5.	1.9	35
10	Ab initio materials design for transparent-conducting-oxide-based new-functional materials. Applied Physics A: Materials Science and Processing, 2007, 89, 19-27.	2.3	35
11	First principles predictions of Na and K storage in layered SnSe2. Applied Surface Science, 2021, 566, 150522.	6.1	29
12	New High-T_cHalf-Heusler Ferromagnets NiMnZ (Z=Si, P, Ge, As). Journal of the Physical Society of Japan, 2008, 77, 014705.	1.6	28
13	Examining Service Quality and Customer Satisfaction in the Retail Banking Sector in Vietnam. Journal of Relationship Marketing, 2012, 11, 199-214.	4.4	27
14	Self-Organized Nanostructures and High Blocking Temperatures in MgO-Based d^{0} Ferromagnets. Japanese Journal of Applied Physics, 2012, 51, 050201.	1.5	24
15	Diffusion Mechanism of Polaronâ€“Li Vacancy Complex in Cathode Material Li$_{2}$FeSiO$_{4}$. Applied Physics Express, 2012, 5, 125802.	2.4	22
16	Diffusion mechanism of Na ionâ€“polaron complex in potential cathode materials NaVOPO₄ and VOPO₄ for rechargeable sodium-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 23625-23634.	2.8	22
17	Computational Nano-materials Design for Colossal Thermoelectric-cooling Power by Adiabatic Spin-Entropy Expansion in Nano-superstructures. Japanese Journal of Applied Physics, 2007, 46, L777-L779.	1.5	21
18	First-principles study of the magnetic properties of nitrogen-doped alkaline earth metal oxides. Physica B: Condensed Matter, 2012, 407, 2875-2878.	2.7	21

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19	Adsorption of toxic gases on borophene: surface deformation links to chemisorptions. RSC Advances, 2021, 11, 18279-18287.	3.6	21
20	Ni Single Atoms and Ni Phosphate Clusters Synergistically Triggered Surfaceâ€Functionalized MoS₂ Nanosheets for Highâ€performance Freshwater and Seawater Electrolysis. Energy and Environmental Materials, 2022, 5, 1340-1349.	12.8	20
21	First principles study of the crystal, electronic structure, and diffusion mechanism of polaron-Na vacancy of Na₃MnPO₄CO₃for Na-ion battery applications. Journal Physics D: Applied Physics, 2017, 50, 045502.	2.8	18
22	Single platinum atoms implanted 2D lateral anion-intercalated metal hydroxides of Ni2(OH)2(NO3)2 as efficient catalyst for high-yield water splitting. Applied Catalysis B: Environmental, 2022, 317, 121684.	20.2	18
23	Tc-Enhanced Codoping Method for GaAs-Based Dilute Magnetic Semiconductors. Japanese Journal of Applied Physics, 2003, 42, L888-L891.	1.5	17
24	A New Insight into the Polaronâ€“Li Complex Diffusion in Cathode Material LiFe$_{1-y}$Mn$_{y}$PO$_{4}$ for Li Ion Batteries. Applied Physics Express, 2012, 5, 045801.	2.4	16
25	Controlled Growth of Vertically Oriented Trilayer MoS₂ Nanoflakes for Roomâ€Temperature NO₂ Gas Sensor Applications. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000004.	1.8	16
26	First-principles Calculation of Effects of Carbon on Tetragonality and Magnetic Moment in Feâ€“C System. ISIJ International, 2015, 55, 2483-2491.	1.4	15
27	SnSe2 monolayer is a promising Na host material: A DFT study. Materials Science in Semiconductor Processing, 2021, 136, 106175.	4.0	14
28	Hybrid functional study on diffusion of silicate cathode material Li₂NiSiO₄. Journal of Physics: Conference Series, 2013, 454, 012061.	0.4	13
29	Two-dimensional Na_xSiS as a promising anode material for rechargeable sodium-based batteries: ab initio material design. Physical Chemistry Chemical Physics, 2019, 21, 24326-24332.	2.8	13
30	Quasi-Three-Dimensional Diffusion of Li ions in Li3FePO4CO3: First-Principles Calculations for Cathode Materials of Li-Ion Batteries. Applied Physics Express, 2013, 6, 115801.	2.4	12
31	Insight into the diffusion mechanism of sodium ionâ€“polaron complexes in orthorhombic P2 layered cathode oxide Na_xMnO₂. Physical Chemistry Chemical Physics, 2020, 22, 18219-18228.	2.8	12
32	Structural and Magnetic Properties of Room Temperature Ferromagnets NiCrZ. Journal of Computational and Theoretical Nanoscience, 2009, 6, 2589-2596.	0.4	11
33	Monolayer SnC as anode material for Na ion batteries. Computational Materials Science, 2021, 197, 110617.	3.0	11
34	First-principles material design and perspective on semiconductor spintronics materials. Physica B: Condensed Matter, 2009, 404, 5237-5243.	2.7	10
35	First-Principles Calculation of the Effects of Carbon on Tetragonality and Magnetic Moment of BCC-Fe. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 1329-1338.	0.4	10
36	Efficient synergism of NiO-NiSe2 nanosheet-based heterostructures shelled titanium nitride array for robust overall water splitting. Journal of Colloid and Interface Science, 2022, 612, 121-131.	9.4	10

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37	Ferromagnetism and Curie temperature of Vanadium-doped nitrides. Microscopy (Oxford, England), 2005, 54, i61-i64.	1.5	9
38	Adsorption of Acetone and Toluene on Single-Vacancy Silicene by Density Functional Theory Calculations. Materials Transactions, 2020, 61, 1449-1454.	1.2	9
39	Measuring the Impacts of Internet Banking to Bank Performance: Evidence from Vietnam. Journal of Internet Banking and Commerce, 2015, 20, .	0.1	9
40	Two-Dimensional NH₄V₃O₈ Nanoflakes as Efficient Energy Conversion and Storage Materials for the Hydrogen Evolution Reaction and Supercapacitors. ACS Omega, 2022, 7, 25433-25442.	3.5	9
41	Carrier Co-doping Method with Size Compensation to Enhance TC of Mn-doped Nitrides. Journal of Superconductivity and Novel Magnetism, 2005, 18, 47-53.	0.5	8
42	Half-Metallicity and High-T c Ferromagnetism in Si-containing Half-Heusler Alloys. Journal of Superconductivity and Novel Magnetism, 2010, 23, 79-82.	1.8	8
43	On the electron mobility in slightly compensated heavily doped GaAs at low temperatures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 182, 125-129.	2.1	7
44	Enhancement ofTCby a carrier codoping method with size compensation for nitride-based ferromagnetic dilute magnetic semiconductors. Journal of Physics Condensed Matter, 2004, 16, S5705-S5709.	1.8	7
45	First Principle Materials Design of Half-Metallic Ferromagnetic Half-Heusler Alloys. IEEE Transactions on Magnetics, 2009, 45, 2663-2666.	2.1	7
46	Self-Organized Nanostructures and High Blocking Temperatures in MgO-Based d0Ferromagnets. Japanese Journal of Applied Physics, 2012, 51, 050201.	1.5	7
47	First Principle Study of Spinodal Decomposition Thermodynamics in Half-Heusler Alloy CoTi1â^'x Fe x Sb. Journal of Superconductivity and Novel Magnetism, 2010, 23, 75-78.	1.8	6
48	Hybrid Functional Study on Small Polaron Formation and Ion Diffusion in the Cathode Material Na₂Mn₃(SO₄)₄. ACS Omega, 2020, 5, 5429-5435.	3.5	6
49	Tavorite-like orthorhombic AVPO4F (A = Li, Na) for novel high-voltage cathodes in rechargeable batteries. Journal of Alloys and Compounds, 2021, 875, 159963.	5.5	5
50	First-Principles Study of Charge Compensation in Olivine Positive. ECS Transactions, 2012, 41, 115-127.	0.5	4
51	Novel (110) Double-Layered Guanidinium-Lead Iodide Perovskite Material: Crystal Structure, Electronic Structure, and Broad Luminescence. Journal of Physical Chemistry C, 2021, 125, 964-972.	3.1	4
52	Adsorption of 2-Butanone on Pristine Graphene: A First-principles Study. VNU Journal of Science Mathematics - Physics, 2020, 36, .	0.1	4
53	DFT Study on Adsorption of Acetone and Toluene on Silicene. VNU Journal of Science Mathematics - Physics, 2020, 36, .	0.1	4
54	Effect of Impurity Correlation on the Density of States in Slightly Compensated Heavily Doped Semiconductors. Journal of the Physical Society of Japan, 1997, 66, 140-148.	1.6	3

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55	Pseudo-SIC study on the ferromagnetism induced by carbon in AO-based DMS (A = Mg, Ca, Ba, Sr). Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4131-4134.	0.8	3
56	Effects of substitutional Mo and Cr on site occupation and diffusion of hydrogen in the Î²-phase vanadium hydride by first principles calculations. Theoretical Chemistry Accounts, 2019, 138, 1.	1.4	3
57	Understanding doping effects on P2 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mi>x</mml:mi></mml		