

Dorj Odkhuu

List of Publications by Year in descending order

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79
papers

1,765
citations

361413

20
h-index

302126

39
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85
all docs

85
docs citations

85
times ranked

2810
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Patronite Form of Vanadium Sulfide on Graphitic Layer. Journal of the American Chemical Society, 2013, 135, 8720-8725.	13.7	300
2	Development of Double Perovskite Compounds as Cathode Materials for Low Temperature Solid Oxide Fuel Cells. Angewandte Chemie - International Edition, 2014, 53, 13064-13067.	13.8	176
3	Conversion of multilayer graphene into continuous ultrathin sp ³ -bonded carbon films on metal surfaces. Scientific Reports, 2013, 3, 3276.	3.3	83
4	Giant voltage modulation of magnetic anisotropy in strained heavy metal/magnet/insulator heterostructures. Physical Review B, 2015, 92, .	3.2	79
5	Negatively curved carbon as the anode for lithium ion batteries. Carbon, 2014, 66, 39-47.	10.3	72
6	Distribution of oxygen functional groups of graphene oxide obtained from low-temperature atomic layer deposition of titanium oxide. RSC Advances, 2017, 7, 13979-13984.	3.6	51
7	Extremely large perpendicular magnetic anisotropy of an Fe(001) surface capped by transition metal monolayers: A density functional study. Physical Review B, 2013, 88, .	3.2	48
8	Catalytic Transparency of Hexagonal Boron Nitride on Copper for Chemical Vapor Deposition Growth of Large-Area and High-Quality Graphene. ACS Nano, 2014, 8, 5478-5483.	14.6	48
9	Room-temperature ferromagnetism in Fe-doped wide band gap ferroelectric Bi _{0.5} K _{0.5} TiO ₃ nanocrystals. Materials Letters, 2015, 156, 129-133.	2.6	48
10	A physical organogel electrolyte: characterized by in situ thermo-irreversible gelation and single-ion-predominant conduction. Scientific Reports, 2013, 3, 1917.	3.3	45
11	First-principles prediction of a two-dimensional vanadium carbide (MXene) as the anode for lithium ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 5807-5818.	2.8	40
12	Intrinsic and tunable ferromagnetism in Bi _{0.5} Na _{0.5} TiO ₃ through CaFeO ₃ - δ modification. Scientific Reports, 2020, 10, 6189.	3.3	32
13	Structure, optical and magnetic properties of new Bi _{0.5} Na _{0.5} TiO ₃ -SrMnO ₃ solid solution materials. Scientific Reports, 2019, 9, 18186.	3.3	30
14	Giant perpendicular magnetic anisotropy of an individual atom on two-dimensional transition metal dichalcogenides. Physical Review B, 2016, 94, .	3.2	28
15	Magnetization reversal of giant perpendicular magnetic anisotropy at the magnetic-phase transition in FeRh films on MgO. Physical Review B, 2016, 93, .	3.2	27
16	A first-principles study of magnetostrictions of Fe ₃ O ₄ and CoFe ₂ O ₄ . Journal of Applied Physics, 2014, 115, .	2.5	26
17	Defect induced room temperature ferromagnetism in lead-free ferroelectric Bi _{0.5} K _{0.5} TiO ₃ materials. Physica B: Condensed Matter, 2018, 532, 108-114.	2.7	24
18	Effect of Li ₂ CO ₃ addition on the structural, optical, ferroelectric, and electric-field-induced strain of lead-free BNKT-based ceramics. Journal of Physics and Chemistry of Solids, 2015, 85, 148-154.	4.0	21

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19	Jahn-Teller driven perpendicular magnetocrystalline anisotropy in metastable ruthenium. Physical Review B, 2015, 91, .	3.2	21
20	First-Principles Prediction of Possible Rare-Earth Free Permanent Magnet of Tetragonal FeCo with Enhanced Magnetic Anisotropy and Energy Product through Interstitial Nitrogen. Physical Review Applied, 2019, 11, .	3.8	21
21	Experimental and theoretical studies on induced ferromagnetism of new $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3+x\text{CoTiO}_3$ solid solution materials. Vacuum, 2020, 179, 109551.	3.3	21
22	Electric control of magnetization reorientation in FeRh mediated by a magnetic phase transition. Physical Review B, 2017, 96, .	3.2	20
23	Magnetic and optical properties of MgMnO_3 -modified $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ materials. Journal of Magnetism and Magnetic Materials, 2019, 482, 31-37.	2.3	19
24	Theory of perpendicular magnetocrystalline anisotropy in Fe/MgO (001). Journal of Magnetism and Magnetic Materials, 2016, 414, 126-131.	2.3	18
25	Strain-induced modification in the magnetic properties of Mn_5Ge_3 thin films. Journal of Applied Physics, 2013, 114, .	2.5	17
26	Strain-driven electric control of magnetization reversal at multiferroic interfaces. Physical Review B, 2018, 97, .	3.2	17
27	Theoretical and experimental studies on the influence of Cr incorporation on the structural, optical, and magnetic properties of $\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ materials. Journal of Sol-Gel Science and Technology, 2018, 87, 528-536.	2.4	17
28	Interfacial magnetic-phase transition mediated large perpendicular magnetic anisotropy in FeRh/MgO by a heavy transition-metal capping. Scientific Reports, 2018, 8, 6900.	3.3	17
29	Magnetic and optical properties of new $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3+x\text{BaMnO}_3$ solid solution materials. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	17
30	Engineering of magnetostriction in $\text{Fe}_3\text{Pt}_{1-x}\text{Ir}_x$ by controlling the Ir concentration. Applied Physics Letters, 2011, 98, 152502.	3.3	16
31	Giant strain control of magnetoelectric effect in Ta Fe MgO . Scientific Reports, 2016, 6, 32742.	3.3	16
32	Microstructural, Optical, and Magnetic Properties of BiCoO_3 -Modified $\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$. Journal of Electronic Materials, 2018, 47, 3414-3420.	2.2	16
33	Enhancing Energy Product and Thermal Stability of $\text{SmFe}_{12}\text{Mn}$ by Interstitial Doping. Physical Review Applied, 2020, 13, .	3.8	16
34	Atomic and electronic structure of CdTe/metal (Cu, Al, Pt) interfaces and their influence to the Schottky barrier. Journal of Applied Physics, 2016, 120, .	2.5	15
35	Experimental and theoretical studies on the room-temperature ferromagnetism in new $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3+x\text{CoTiO}_3$ solid solution materials. Vacuum, 2020, 179, 109551.	3.5	15
36	First-principles study of magnetization reorientation and large perpendicular magnetic anisotropy in CuFeO_4 heterostructures. Physical Review B, 2018, 98, .	3.4	15

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37	Magnetic and optical properties of new $(1-x)Bi_0.5Na_0.5TiO_3-xCaMnO_3$ solid solution materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114902.	3.5	14
38	Observation of room-temperature ferromagnetism in Co-doped $Bi_0.5K_0.5TiO_3$ materials. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	13
39	First-principles investigation of huge magnetostriction in cubic $L1_2$ Fe_3Pt . <i>Journal of Applied Physics</i> , 2010, 107, 09A945.	2.5	12
40	Magnetocrystalline anisotropy energy and spin polarization of Fe_3Si in bulk and on $Si(001)$ and $Si(111)$ substrates. <i>Thin Solid Films</i> , 2011, 519, 8218-8222.	1.8	12
41	Influenced of $Bi(Ti_{1/2}Ni_{1/2})O_3$ concentration on the structural, optical and magnetic properties of lead-free $Bi_{1/2}Na_{1/2}TiO_3$ materials. <i>Vacuum</i> , 2020, 177, 109306.	3.5	12
42	A first-principles study of magnetism of lithium fluorosulphate $LiFeSO_4F$. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	11
43	Tunable magnetic properties of double perovskite $La_2Fe_{2-x}Co_xO_6$. <i>Physica B: Condensed Matter</i> , 2018, 540, 33-37.	2.7	10
44	Enhancing room-temperature ferromagnetism in $Bi_0.5Na_0.5TiO_3$ via $FeTiO_3$ solid solution. <i>Journal of Electroceramics</i> , 2020, 44, 129-135.	2.0	10
45	Magnetocrystalline anisotropy of zinc-blende $CrTe$ (001) surface: A first-principles study. <i>Thin Solid Films</i> , 2011, 519, 8355-8358.	1.8	9
46	Structural, optical, and magnetic properties of a new system of $Bi(Mn_{0.5}Ti_{0.5})O_3$ -modified $Bi_{0.5}Na_{0.5}TiO_3$ materials. <i>Materials Research Express</i> , 2019, 6, 106112.	1.6	9
47	Tunability of magnetic anisotropy of Co on two-dimensional materials by tetrahedral bonding. <i>Physical Review B</i> , 2019, 99, .	3.2	9
48	Enhanced voltage-controlled magnetic anisotropy via magnetoelasticity in $FePt/MgO(001)$. <i>Physical Review B</i> , 2020, 101, .	3.2	9
49	Magnetocrystalline Anisotropy of $D_0\text{-}Fe_3Si$ From First-Principles Study. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2920-2923.	2.1	7
50	Electronic-dimensionality reduction of bulk MoS_2 by hydrogen treatment. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23007-23012.	2.8	6
51	Role of the Interfacial Rh-layer on Robust Ferromagnetism and Large Perpendicular Magnetic Anisotropy of $FeRh$ Films on $MgO(001)$. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 487-496.	2.3	6
52	Simultaneous tuning of the magnetic anisotropy and thermal stability of α -phase $Fe_{16}Ni_2$. <i>Scientific Reports</i> , 2021, 11, 7823.	3.3	6
53	$Fe^{2+}Ni^{2+}N$ based alloys as rare-earth free high-performance permanent magnet across α - β transition: A theoretical insight. <i>Acta Materialia</i> , 2021, 210, 116807.	7.9	6
54	Sulfur (anion) manipulated highly polar stable ferroelectric perovskite under epitaxial strain. <i>Journal of Applied Physics</i> , 2014, 116, 194105.	2.5	5

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55	Gigantic perpendicular magnetic anisotropy of heavy transition metal cappings on Fe/MgO(0 0 1). Journal of Magnetism and Magnetic Materials, 2017, 442, 183-188.	2.3	5
56	Itinerant Semiconducting Antiferromagnetism in Metastable V ₃ Ga. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900483.	2.4	5
57	Study of Structural and Magnetic Properties of Spinel Zn Doped Cobalt Ferrites. Solid State Phenomena, 2020, 310, 124-133.	0.3	5
58	First-principles prediction of rare-earth free permanent magnet: FeNi with enhanced magnetic anisotropy and stability through interstitial boron. AIP Advances, 2021, 11, .	1.3	5
59	Enhancing magnetic anisotropy and stability of Fe_{16}N_2 phase by Co and V co-substitution. AIP Advances, 2021, 11, .	1.3	5
60	Magnetocrystalline anisotropy of 4d/5d transition metals on a Co(0001) surface: A first-principles study. Journal of Applied Physics, 2015, 117, 17A327.	2.5	4
61	Modulation of Magnetism and Magnetic Anisotropy at the Heavy-Metal/FeRh Interface. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	4
62	Non-BCS-type superconductivity and critical thickness of SrTiO ₃ /LaAlO ₃ /SrTiO ₃ trilayer interface system. Applied Surface Science, 2021, 565, 150495.	6.1	4
63	Magnetism and Magnetocrystalline Anisotropy of 3d Transition Metal Monolayers on Pt(001): A Density-Functional Study. Journal of Nanoscience and Nanotechnology, 2014, 14, 9011-9013.	0.9	3
64	Effect of Sintering Temperature on Properties of Lead-Free Piezoelectric 0.975Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} TiO ₃ -0.025LiTaO ₃ Ceramics. Journal of Nanoscience and Nanotechnology, 2016, 16, 7929-7934.	0.9	3
65	Electric control of magnetism in low-dimensional magnets on ferroelectric surfaces. AIP Advances, 2017, 7, 055816.	1.3	3
66	Thickness effect on magnetocrystalline anisotropy of MnPt(O ₂) film. Journal of Magnetism and Magnetic Materials, 2018, 467, 69-73.	2.3	3
67	Strain tunable spin reorientation of an individual Fe atom on 2D blue phosphorous. Journal of Physics Condensed Matter, 2019, 31, 485802.	1.8	3
68	First-Principles Prediction of Enhanced Magnetic Anisotropy of $\text{Fe}_{1-x}\text{Ni}_x$ -Phase $\text{Fe}_{1-x}\text{Ni}_x$, With B and C Impurities. IEEE Transactions on Magnetics, 2021, 57, 1-3.	2.1	3
69	Magnetic properties of new $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3+x\text{BaNiO}_3$ solid solution materials. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
70	Electronic origin of the negligible magnetostriction of an electric steel Fe _{1-x} Si _x alloy: A density-functional study. Journal of Applied Physics, 2012, 111, .	2.5	2
71	Electronic structure and magnetism of various surfaces of the catalytic material Pt ₃ Ni: Density-functional study. Journal of Magnetism and Magnetic Materials, 2013, 339, 89-93.	2.3	2
72	Strain control of magnetic phase transition and perpendicular magnetic anisotropy in Ta/FeRh/MgO(001) heterostructure. AIP Advances, 2019, 9, .	1.3	2

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73	First-principles study on magnetocrystalline anisotropy of cobalt films: hcp vs fcc. Current Applied Physics, 2022, 41, 148-155.	2.4	2
74	La Displacement Driven Double-Exchange Like Mediation in Titanium d_{xy} Ferromagnetism at the $\text{LaAlO}_3/\text{SrTiO}_3$. Journal of the Physical Society of Japan, 2016, 85, 043702.	1.6	1
75	Titelbild: Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells (Angew. Chem. 48/2014). Angewandte Chemie, 2014, 126, 13187-13187.	2.0	0
76	Synthetic hybrid $\text{Co}_2\text{FeGe}/\text{Ge}(\text{Mn})$ superlattice for spintronics applications. Applied Physics Letters, 2016, 109, 172401.	3.3	0
77	Substitution- and strain-induced magnetic phase transition in iron carbide. Journal of the Korean Physical Society, 2016, 69, 1335-1340.	0.7	0
78	Inducing and manipulating magnetization in 2D zinc oxide by strain and external voltage. Journal of Physics Condensed Matter, 2018, 30, 145802.	1.8	0
79	Magnetostriction of B2-structured FeX ($X = \text{Al, Si, Ni, Ga, Ge, and Sn}$) Alloys: A First-principles Study. Journal of the Korean Magnetism Society, 2013, 23, 117-121.	0.0	0