Xu Zuo

List of Publications by Year in descending order

98 papers	2,379 citations	377584 21 h-index	242451 47 g-index
100 all docs	100 docs citations	100 times ranked	3047 citing authors

#	Article	IF	Citations
1	General Model for Defect Dynamics in Ionizingâ€Irradiated SiO₂â€Si Structures. Small, 2022, 18, e2107516.	5.2	10
2	First-Principles Study on the Impact of Stress on Depassivation of Defects at a-SiO2/Si Interfaces. Frontiers in Materials, 2022, 9, .	1.2	1
3	First-Principles Study on the Interaction of H2O and Interface Defects in A-SiO2/Si(100). Frontiers in Materials, 2022, 9, .	1.2	0
4	Ab initio calculation of silicon monovacancy defect in amorphous-SiO₂/Si interface. AIP Advances, 2022, 12, 055108.	0.6	0
5	Enhancement of magnetic coupling and magnetic anisotropy in MTJs with multiple CoFeB/MgO interfaces for high thermal stability. AIP Advances, 2021, 11, .	0.6	6
6	Effect of surface modification treatment on top-pinned MTJ with perpendicular easy axis. AIP Advances, 2021, 11, .	0.6	3
7	First-principles calculations of F-, Cl-, and N-related defects of amorphous SiO2 and their impacts on carrier trapping and proton release*. Chinese Physics B, 2021, 30, 047104.	0.7	0
8	Modeling the ELDRS effects in hydrogen-rich a-SiO$$_2$$ of a specific designed GLPNP bipolar transistor. European Physical Journal Plus, 2021, 136, 1.	1.2	4
9	First-Principles Calculations of Silicon Interstitial Defects at the Amorphous-SiO₂/Si Interface. Journal of Physical Chemistry C, 2021, 125, 15044-15051.	1.5	4
10	Multi-scale simulations of hydrogen diffusion and induced defects in amorphous-SiO2/Si interface. Superlattices and Microstructures, 2021, 156, 106962.	1.4	2
11	Passivation and dissociation of P b-type defects at a-SiO2/Si interface*. Chinese Physics B, 2021, 30, 097101.	0.7	0
12	Transverse Rashba effect and unconventional magnetocrystalline anisotropy in graphene-nanoribbon-based centrosymmetric antiferromagnet. Carbon, 2021, 185, 619-629.	5.4	5
13	First-principles study on non-radiative carrier captures of point defects associated with proton generation in silica. AIP Advances, 2021, 11, 015214.	0.6	3
14	0.1THz super-resolution imaging based on 3D printed confocal waveguides. Optics Communications, 2020, 459, 124896.	1.0	21
15	Molecular dynamics simulation of atomic hydrogen diffusion in strained amorphous silica*. Chinese Physics B, 2020, 29, 027101.	0.7	5
16	Gamma-ray irradiation-induced oxidation and disproportionation at the amorphous SiO₂/Si interfaces. Journal of Materials Chemistry C, 2020, 8, 17065-17073.	2.7	5
17	Ab initio study on exchange integrals and magnetic anisotropy change of BaFe12â^'xScxO19 (xÂ=ÂO, 0.5, 1,) Tj ETQq1 1 0.784314 rg	1.0	4
18	Hydroxyl <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow><mml:mi>E</mml:mi></mml:mrow><mml:mtext>'</mml:mtext></mml:msup></mml:math> center and stress-assisted proton generation in hydrogen-rich amorphous silica. Computational Materials Science, 2020, 182, 109760.	1.4	5

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19	Ab initio calculations on oxygen vacancy defects in strained amorphous silica*. Chinese Physics B, 2020, 29, 047103.	0.7	4
20	Rashba spin splitting and perpendicular magnetic anisotropy of Gd-adsorbed zigzag graphene nanoribbon modulated by edge states under external electric fields. Physical Review B, 2020, 101, .	1.1	11
21	First-principles study of defects in amorphous-SiO2/Si interfaces. Applied Surface Science, 2019, 483, 231-240.	3.1	21
22	Computational Study on Interfaces and Interface Defects of Amorphous Silica and Silicon. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800547.	1.2	13
23	Interactions of atomic hydrogen with amorphous SiO 2. Physica B: Condensed Matter, 2018, 533, 5-11.	1.3	11
24	Dissociation characteristics of proton release in a-SiO2 by first-principles theory. Journal of Non-Crystalline Solids, 2018, 486, 1-8.	1.5	14
25	First-principles investigations of proton generation in Î± -quartz. Chinese Physics B, 2018, 27, 037102.	0.7	12
26	Structural, electronic, and magnetic properties of vanadium atom-adsorbed MoSe₂monolayer. Chinese Physics B, 2017, 26, 027103.	0.7	6
27	First principles study of oxygen vacancy defects in amorphous SiO2. AIP Advances, 2017, 7, .	0.6	29
28	Orbitally driven low thermal conductivity of monolayer gallium nitride (GaN) with planar honeycomb structure: a comparative study. Nanoscale, 2017, 9, 4295-4309.	2.8	155
29	Unconventional magnetic anisotropy in one-dimensional Rashba system realized by adsorbing Gd atom on zigzag graphene nanoribbons. Nanoscale, 2017, 9, 11657-11666.	2.8	15
30	First-principles investigation of oxygen-excess defects in amorphous silica. AIP Advances, 2017, 7, 105118.	0.6	10
31	Carrier-dependent magnetic anisotropy of Gd-adsorbed graphene. AIP Advances, 2016, 6, .	0.6	10
32	Electronic origin of spatial self-phase modulation: Evidenced by comparing graphite with C60 and graphene. Applied Physics Letters, 2016, 108, .	1.5	40
33	Ferrimagnetism of Ti-Adsorbed Graphene. IEEE Transactions on Magnetics, 2016, 52, 1-3.	1.2	1
34	Half-Metallicity in CuCr₂S₄Film: A Density Functional Study. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	1
35	Large perpendicular magnetic anisotropy of single Co atom on MgO monolayer: A first-principles study. Journal of Applied Physics, 2015, 117, 17B316.	1.1	3
36	Dirac cones in transition metal doped boron nitride. Journal of Applied Physics, 2015, 117, .	1.1	5

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37	Ab initio calculations on magnetism induced by composite defects in magnesium oxide. Journal of Applied Physics, 2014, 115, 17A926.	1.1	5
38	Dirac cones in artificial structures of 3d transitional-metals doped Mg-Al spinels. Journal of Applied Physics, 2014, 115, 17E119.	1.1	0
39	First principles study of the electronic structure and magnetism of oxygen-deficient anatase TiO2 (001) surface. Applied Surface Science, 2014, 292, 475-479.	3.1	23
40	Exchange integrals in magnetoelectric hexagonal ferrite (SrCo2Ti2Fe8O19): A density functional study. Journal of Applied Physics, 2014, 115, 17D908.	1.1	10
41	Unexpected magnetic anisotropy induced by oxygen vacancy in anatase TiO2: A first-principles study. Journal of Applied Physics, 2014, 115, 17A915.	1.1	10
42	Carrier-dependent magnetic anisotropy of cobalt doped titanium dioxide. Scientific Reports, 2014, 4, 7496.	1.6	8
43	Ab initio study on magnetic anisotropy change of SrCoxTixFe12â^'2xO19. Journal of Applied Physics, 2013, 113, 17D909.	1.1	15
44	Ab initiostudy of magnetic anisotropy in cobalt doped zinc oxide with electron-filling. Journal of Applied Physics, 2013, 113, 17C728.	1.1	1
45	Magnetic anisotropy in the boron nitride monolayer doped by 3d transitional metal substitutes at boron-site. Journal of Applied Physics, 2013, 113, .	1.1	7
46	First-principles calculations of h-BN monolayers by doping with oxygen and sulfur. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 083102.	0.2	11
47	First-Principles Study of Doped Half-Metallic Spinels: Cu 0.5 Zn 0.5 Cr 2 S 4 , Cu 0.5 Cd 0.5 Cr 2 S 4 , Li 0.5 Zn 0.5. Chinese Physics Letters, 2012, 29, 047503.	1.3	4
48	Impacts of enhanced electronic correlation in anion p-orbitals on electronic structure and magnetic properties of nitrogen or carbon doped zinc oxide. Journal of Applied Physics, 2012, 111, 07E313.	1.1	8
49	Ab initio calculation of the local magnetic moment in titanium doped zinc oxide with a corrected-band-gap scheme. Journal of Applied Physics, 2012, 111, 07C301.	1.1	7
50	First principles caculations of h-BN monolayer with group IA/IIA elements replacing B as impurities. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 236301.	0.2	1
51	Ab Initio Study on Manganese Doped Cadmium Ferrite $(hbox{Cd}_{1-x}hbox{Mn}_{x}hbox{Fe}_{2}hbox{O}_{4})$. IEEE Transactions on Magnetics, 2011, 47, 324-332.	1.2	5
52	Ab Initio Study on Nitrogen or Carbon Doped Magnesium Oxide. IEEE Transactions on Magnetics, 2011, 47, 2928-2930.	1.2	7
53	Ab-initio Calculation of Magnetic Anisotropy Energy of Iron-Gallium Alloy in ${m L}1_{2}$ Phase. IEEE Transactions on Magnetics, 2011, 47, 2908-2911.	1.2	0
54	Ab initio study on copper ferrite. Journal of Applied Physics, 2010, 107, .	1.1	19

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55	Evidence for high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>ferromagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Zn</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2009, 80, .	1.1	69
56	Electronic Structure and Magnetic Properties of Spinel ${hbox {LiCr}}_{2}{hbox {O}}_{4}$: A ${hbox {GGA}}+$ U Study. IEEE Transactions on Magnetics, 2009, 45, 3985-3988.	1.2	3
57	Recent advances in processing and applications of microwave ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 2035-2047.	1.0	696
58	Ferromagnetism in pure wurtzite zinc oxide. Journal of Applied Physics, 2009, 105, .	1.1	88
59	Realization of Far From Equilibrium Cation Distributions in Ferrites. IEEE Transactions on Magnetics, 2009, 45, 666-669.	1.2	4
60	HTS filter subsystem for future mobile communication system. Science in China Series F: Information Sciences, 2008, 51, 1384-1390.	1.1	2
61	Addendum to â€œMagnetic semiconducting anatase TiO2â^' grown on (1 0 0) LaAlO3 having magnetic order up to 880 Kâ€• Journal of Magnetism and Magnetic Materials, 2008, 320, 597-599.	1.0	3
62	Ab initio calculation on ferromagnetic reduced anatase TiO2â^Î´. Journal of Applied Physics, 2008, 103, 07B911.	1.1	29
63	Structural, Magnetic, and Microwave Properties of BaFe$_{10.5}$Mn$_{1.5}$O$_{19}$ Thin Films. IEEE Transactions on Magnetics, 2008, 44, 2966-2969.	1.2	3
64	Element- and site-specific oxidation state and cation distribution in manganese ferrite films by diffraction anomalous fine structure. Applied Physics Letters, 2008, 93, 052504.	1.5	20
65	Atomic Scale Design and Control of Cation Distribution in Hexagonal Ferrites. Physical Review Letters, 2008, 101, 067201.	2.9	31
66	A self-equalized HTS filter for future mobile communication applications. Physica C: Superconductivity and Its Applications, 2007, 459, 1-4.	0.6	6
67	Magnetic semiconducting anatase TiO2â^Î´ grown on (100) LaAlO3 having magnetic order up to 880K. Journal of Magnetism and Magnetic Materials, 2007, 309, 171-175.	1.0	46
68	Oxygen-defect-induced magnetism to 880 K in semiconducting anatase TiO2â^Î´films. Journal of Physics Condensed Matter, 2006, 18, L355-L361.	0.7	256
69	A Computational Study of Nickel Ferrite. Journal of Magnetism and Magnetic Materials, 2006, 303, e432-e435.	1.0	27
70	Computational study of copper ferrite (CuFe2O4). Journal of Applied Physics, 2006, 99, 08M909.	1.1	56
71	Magnetism, Structure, and Cation Distribution in MnFeOFilms Processed by Conventional and Alternating Target Laser Ablation Deposition. IEEE Transactions on Magnetics, 2006, 42, 2870-2872.	1.2	15
72	Site-specific local structure of Mn in artificial manganese ferrite films. Physical Review B, 2006, 74, .	1.1	17

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73	Large induced magnetic anisotropy in manganese spinel ferrite films. Applied Physics Letters, 2005, 87, 152505.	1.5	48
74	Cation-disorder-enhanced magnetization in pulsed-laser-deposited CuFe2O4 films. Applied Physics Letters, 2005, 86, 252510.	1.5	39
75	Magnetic properties of manganese ferrite films grown at atomic scale. Journal of Applied Physics, 2005, 97, 10G103.	1.1	19
76	Manganese Ferrite Grown at the Atomic Scale. IEEE Transactions on Magnetics, 2004, 40, 2811-2813.	1.2	15
77	Extended X-Ray Absorption Fine Structure Analysis of Cation Distribution in MnFe<tex>$_2$</tex>O<tex>$_4$</tex>Single Crystal Films and Artificial Ferrite Structures. IEEE Transactions on Magnetics, 2004, 40, 2802-2804.	1.2	18
78	Calculation of exchange constants in manganese ferrite (MnFe2O4). Journal of Magnetism and Magnetic Materials, 2004, 272-276, 306-311.	1.0	27
79	Epitaxial growth of artificial ferrites at the atomic scale. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1795-E1797.	1.0	3
80	Self-biased circulator/isolator at millimeter wavelengths using magnetically oriented polycrystalline strontium M-type hexaferrite. IEEE Transactions on Magnetics, 2003, 39, 3160-3162.	1.2	31
81	The dependence of exchange constants and electronic structure of manganese ferrite on the scaling factor. IEEE Transactions on Magnetics, 2003, 39, 3133-3135.	1.2	2
82	Calculation of exchange integrals and electronic structure of manganese ferrite (MnFe2O4). Journal of Applied Physics, 2003, 93, 8017-8019.	1.1	17
83	Zn/sub 2/Y hexaferrite (Ba/sub 2/Zn/sub 2/Fe/sub 12/O/sub 22/) single-crystal microstripline phase shifter. IEEE Transactions on Magnetics, 2002, 38, 3493-3497.	1.2	14
84	Calculation of exchange integrals and electronic structure for manganese ferrite. Physical Review B, 2002, 66, .	1.1	25
85	Single crystal hexaferrite phase shifter at Ka band. Journal of Applied Physics, 2002, 91, 7622.	1.1	28
86	Oriented Y-type hexaferrites for ferrite device. Journal of Applied Physics, 2002, 91, 7616.	1.1	19
87	Calculated and measured characteristics of a microstrip line fabricated on a Y-type hexaferrite substrate. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1280-1288.	2.9	6
88	Development of high frequency ferrite phase-shifter. IEEE Transactions on Magnetics, 2001, 37, 2395-2397.	1.2	18
89	Application of single-crystal scandium substituted barium hexaferrite for monolithic millimeter-wavelength circulators. IEEE Transactions on Magnetics, 2001, 37, 3941-3946.	1.2	10
90	MMIC circulators using hexaferrites. IEEE Transactions on Magnetics, 2001, 37, 2389-2391.	1.2	37

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91	Ferrimagnetic resonance linewidths of thick barium hexaferrite films on MgO [111]. IEEE Transactions on Magnetics, 2001, 37, 2383-2385.	1.2	3
92	Dyadic Greenâ€™s function calculations on a layered dielectric/ferrite structure. Journal of Applied Physics, 2001, 89, 6722-6724.	1.1	2
93	Heteroepitaxial Barium Hexaferrite Films on (111) Magnesium Oxide Substrates. Materials Research Society Symposia Proceedings, 2000, 623, 137.	0.1	0
94	Microwave properties of pulsed laser deposited Sc-doped barium hexaferrite films. Journal of Applied Physics, 2000, 87, 4981-4983.	1.1	34
95	MMW monolithic Y-junction circulator on single-crystal Sc-doped Ba-hexaferrite. , 0, , .		2
96	Self-biased circulator/isolator at millimeter wavelength using magnetically oriented polycrystalline strontium M-type hexaferrite (SrFe/sub 12/O/sub 19/). , 0, , .		0
97	Modeling of exchange constants and electronic structure of manganese ferrite (MnFe/sub 2/O/sub 4/). , 0, , .		0
98	First-principles calculations of the hole-induced depassivation of the SiO2/Si interface defects. Chinese Physics B, 0, , .	0.7	0