

# Jian-Qing Dai

## List of Publications by Citations

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67

papers

361

citations

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h-index

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70

ext. papers

460

ext. citations

3.6

avg, IF

4.4

L-index

#	Paper	IF	Citations
67	Thermodynamic Stability of BiFeO (0001) Surfaces from ab Initio Theory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3168-3177	9.5	26
66	First-principles study on the multiferroic BiFeO <sub>3</sub> (0001) polar surfaces. <i>Applied Surface Science</i> , <b>2017</b> , 392, 135-143	6.7	26
65	Enhancement of magnetoelectric effect by combining different interfacial coupling mechanisms. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 114301	2.5	24
64	Effect of Zn and Ti Co-doping on structure and electrical properties of BiFeO <sub>3</sub> ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 9215-9220	5.1	23
63	Interfacial electronic structure and magnetoelectric effect in M/BaTiO <sub>3</sub> (M=Ni, Fe) superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3937-3943	2.8	22
62	Physical properties of Al doped BiFeO <sub>3</sub> obtained by sol-gel route and two-step sintering process. <i>Ceramics International</i> , <b>2020</b> , 46, 7954-7960	5.1	15
61	Ferroelectric phase transition and spontaneous electric polarization in CaMn <sub>7</sub> O <sub>12</sub> from first principles. <i>New Journal of Physics</i> , <b>2015</b> , 17, 113038	2.9	12
60	Effect of Surface Termination on Charge Doping in Graphene/BiFeO <sub>3</sub> (0001) Hybrid Structure. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17250-17260	3.8	12
59	Hybrid functional study on optical properties of Sr <sub>2</sub> M <sub>2</sub> O <sub>7</sub> N <sub>x</sub> (M=Nb, Ta) photocatalysts with perovskite-slab structures. <i>Current Applied Physics</i> , <b>2016</b> , 16, 1-7	2.6	11
58	Charge doping in graphene on thermodynamically preferred BiFeO(0001) polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 31352-31361	3.6	11
57	Influences of interfacial terminations on electronic structure and magnetoelectric coupling in Fe/KNbO <sub>3</sub> superlattices. <i>Chemical Physics Letters</i> , <b>2015</b> , 619, 163-168	2.5	10
56	Ab initio study of ferroelectric BiAlO <sub>3</sub> (0 0 0 1) polar surfaces. <i>Computational Materials Science</i> , <b>2018</b> , 150, 448-453	3.2	9
55	Tunable electronic and magnetic properties in 1T-VSe <sub>2</sub> monolayer on BiFeO <sub>3</sub> (0001) ferroelectric substrate. <i>Applied Surface Science</i> , <b>2021</b> , 547, 149206	6.7	9
54	Structure and physical properties of (Zn, Ti) co-doped BiFeO <sub>3</sub> ceramics prepared using three different processes. <i>Ceramics International</i> , <b>2019</b> , 45, 5015-5022	5.1	9
53	Polarization Direction Dependence of Thermodynamic Stability of Ferroelectric BiAlO <sub>3</sub> (0001) Polar Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 29220-29227	3.8	9
52	Distinctive electronic and spin structures at the oppositely polarized ferroelectric BiAlO <sub>3</sub> (0001) surfaces. <i>Applied Surface Science</i> , <b>2019</b> , 481, 702-711	6.7	8
51	Large Band Offset in Monolayer MoS <sub>2</sub> on Oppositely Polarized BiFeO <sub>3</sub> (0001) Polar Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3039-3047	3.8	8

50	Structural, electronic, and polarization properties of Bi <sub>2</sub> ZnTiO <sub>6</sub> supercell from first-principles. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 114101	2.5	8
49	Magnetoelectric coupling and spin-dependent tunneling in Fe/PbTiO <sub>3</sub> /Fe multiferroic heterostructure with a Ni monolayer inserted at one interface. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 054104	2.5	7
48	First-principles study of the phonon, dielectric, and piezoelectric response in Bi <sub>2</sub> ZnTiO <sub>6</sub> supercell. <i>Computational Materials Science</i> , <b>2015</b> , 101, 227-232	3.2	7
47	First-principles investigation of platinum monolayer adsorption on the BiFeO <sub>3</sub> (0001) polar surfaces. <i>Applied Surface Science</i> , <b>2018</b> , 428, 964-971	6.7	6
46	Tunneling magnetoresistance and electroresistance in Fe/PbTiO <sub>3</sub> /Fe multiferroic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 074102	2.5	6
45	Influence of oxygen vacancy on electric structure and optical properties of pure and N-doped Sr <sub>2</sub> M <sub>2</sub> O <sub>7</sub> (M = Nb, Ta). <i>Computational Materials Science</i> , <b>2017</b> , 127, 180-186	3.2	5
44	The preferred orientation of Mn <sup>3+</sup> spins in magnetic multiferroic CaMn <sub>7</sub> O <sub>12</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 396, 135-139	2.8	5
43	Thermal stability and electrical properties of BiFe <sub>1-x</sub> M <sub>x</sub> O <sub>3</sub> (M = Al <sup>3+</sup> , Ga <sup>3+</sup> ) ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 3647-3654	2.1	5
42	Magnetoelectric coupling at the epitaxial Ni/PbTiO <sub>3</sub> heterointerface from first principles. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 456, 383-387	2.8	4
41	First Principles Studies of the Phonon, Polarization, Dielectric and Piezoelectric Responses of Pyrochlore Cd <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> . <i>Ferroelectrics</i> , <b>2015</b> , 478, 106-117	0.6	4
40	Electronic structure and static dielectric response of Ba(Mn <sup>1/3</sup> Nb <sup>2/3</sup> )O <sub>3</sub> from first principles. <i>Solid State Communications</i> , <b>2013</b> , 154, 1-5	1.6	4
39	Dependence of improper ferroelectricity on the preferred orientation of Mn <sup>3+</sup> spins in CaMn <sub>7</sub> O <sub>12</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 314-322	2.8	4
38	Enhanced ferroelectric properties of (Zn, Ti) equivalent co-doped BiFeO <sub>3</sub> films prepared via the sol-gel method. <i>Ceramics International</i> , <b>2021</b> , 47, 16776-16785	5.1	4
37	Interface coupling and charge doping in graphene on ferroelectric BiAlO(0001) polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 3407-3416	3.6	4
36	Prominent ferroelectric properties in Mn-doped BiFeO <sub>3</sub> spin-coated thin films. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 886, 161168	5.7	4
35	Ferroelectricity driven by soft phonon and spin order in multiferroic BiMn <sub>3</sub> Cr <sub>4</sub> O <sub>12</sub> . <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6048-6059	3.8	3
34	First-principles investigation of intrinsic dielectric response in Ba(B <sup>1/3</sup> B <sup>2/3</sup> )O <sub>3</sub> with B <sup>?</sup> as transition metal cations. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 159, 6-9	4.4	3
33	Ab initio studies on phonon, dielectric, and piezoelectric responses in perovskite-like bismuth aluminate. <i>International Journal of Applied Ceramic Technology</i> , <b>2017</b> , 14, 976-981	2	3

32	First-principles study of phonons and intrinsic dielectric response of Ba(Ni <sub>1/3</sub> Ta <sub>2/3</sub> )O <sub>3</sub> . <i>Computational Materials Science</i> , <b>2012</b> , 65, 81-84	3.2	3
31	Enhanced electrical properties of (Zn, Mn)-modified BiFeO <sub>3</sub> BaTiO <sub>3</sub> lead-free ceramics prepared via sol-gel method and two-step sintering. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163387	5.7	3
30	Microstructure and properties of nano-laminated Y <sub>3</sub> Si <sub>2</sub> C <sub>2</sub> ceramics fabricated via in situ reaction by spark plasma sintering. <i>Journal of Advanced Ceramics</i> , <b>2021</b> , 10, 578-586	10.7	3
29	Magnetic reconstruction induced magnetoelectric coupling and spin-dependent tunneling in Ni/KNbO <sub>3</sub> /Ni multiferroic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 404, 1-6	2.8	2
28	Large magnetoelectric coupling in ferromagnetic/ferroelectric superlattices with asymmetric interfaces. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 354, 299-302	2.8	2
27	Synergistic magnetic proximity and ferroelectric field effect on a 2H-VS <sub>2</sub> monolayer by ferromagnetic termination of a BiFeO <sub>3</sub> (0001) surface. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 1498-1510	7.1	2
26	Study of Pt monolayer adsorption on the oppositely polarized BiAlO <sub>3</sub> (0001) surfaces by ab initio calculations. <i>Computational Materials Science</i> , <b>2020</b> , 174, 109470	3.2	2
25	First-principles study on structural, electronic, and ferroelectric properties of high-temperature RMn <sub>2</sub> O <sub>5</sub> (R = Sm, Gd, Dy). <i>Materials Today Communications</i> , <b>2020</b> , 22, 100837	2.5	2
24	Effects of solvents and Al doping on structure and physical properties of BiFeO <sub>3</sub> thin films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2021</b> , 98, 45-53	2.3	2
23	First-Principles Study of Hydrogen Storage of Sc-Modified Semiconductor Covalent Organic Framework-1. <i>ACS Omega</i> , <b>2021</b> , 6, 21985-21993	3.9	2
22	Influences of B-site Cations on Intrinsic Dielectric Properties of Ba(B <sup>1/3</sup> B <sup>2/3</sup> )O <sub>3</sub> Materials. <i>Ferroelectrics</i> , <b>2014</b> , 467, 22-32	0.6	1
21	Effect of (Zn, Mn) co-doping on the structure and ferroelectric properties of BiFeO <sub>3</sub> thin films. <i>Ceramics International</i> , <b>2021</b> , 48, 6347-6347	5.1	1
20	Multiple-valued electric polarization in multiferroic GdMn <sub>2</sub> O <sub>5</sub> from first principles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 516, 167373	2.8	1
19	Electronic structure, lattice dynamics, and dielectric properties in cubic perovskite BiMn <sub>3</sub> Cr <sub>4</sub> O <sub>12</sub> and LaMn <sub>3</sub> Cr <sub>4</sub> O <sub>12</sub> . <i>Chemical Physics</i> , <b>2020</b> , 538, 110924	2.3	1
18	Strong modulation of electronic properties of monolayer MoTe <sub>2</sub> using a ferroelectric LiNbO <sub>3</sub> (0001) substrate. <i>Journal of Materials Chemistry C</i> ,	7.1	1
17	Phase structure and electrical properties of (1-x)Bi <sub>1+y</sub> FeO <sub>3-x</sub> BaTiO <sub>3</sub> lead-free ceramics with different Bi contents. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 10289-10298	2.1	1
16	Controllable band offset in monolayer MoSe <sub>2</sub> driven by surface termination and ferroelectric field of BiFeO <sub>3</sub> (0001) substrate. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 304, 122571	3.3	1
15	Electrostatic doping determined by band alignment in graphene on ferroelectric LiNbO <sub>3</sub> (0001) polar surfaces. <i>Computational Materials Science</i> , <b>2021</b> , 200, 110811	3.2	1

14	Indirect-direct band gap transition driven by strain in semiconducting Cu <sub>2</sub> Se monolayer. <i>Materials Research Express</i> , <b>2021</b> , 8, 045003	1.7	o
13	Low temperature seamless joining of SiC using a Ytterbium film. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 7507-7507	6	o
12	Electrical properties of (1-x)BiFe <sub>0.94</sub> Zn <sub>0.03</sub> Ti <sub>0.03</sub> O <sub>3-x</sub> BaTiO <sub>3</sub> lead-free ceramics obtained via sol-gel route and two-step sintering process. <i>Ceramics International</i> , <b>2021</b> , 47, 26383-26390	5.1	o
11	Enhanced electrical properties of 0.7BiFeO <sub>3</sub> 0.3BaTiO <sub>3</sub> lead-free ceramics obtained by optimizing the calcination temperature and time. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	o
10	Modulation of electronic and magnetic properties of monolayer 1T-VSe <sub>2</sub> by ferroelectric LiNbO <sub>3</sub> (0001) surface. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 167, 110745	3.9	o
9	First-principles study of the phase transition in Cd <sub>2</sub> Ta <sub>2</sub> O <sub>7</sub> . <i>Ferroelectrics</i> , <b>2016</b> , 502, 76-86	0.6	
8	Mechanism of improving ferroelectric properties of BiFe <sub>0.98</sub> M <sub>0.02</sub> O <sub>3</sub> (M = Zn, Al, Ti) polycrystalline films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2022</b> , 101, 420	2.3	
7	DFT study of Pt sub-monolayer adsorption on the positive BiFeO <sub>3</sub> (0001) surface. <i>Surface Science</i> , <b>2020</b> , 693, 121553	1.8	
6	Enhanced electrical properties by optimizing sintering temperature and dwell time in BiFe <sub>0.96</sub> Zn <sub>0.02</sub> Ti <sub>0.02</sub> O <sub>3</sub> ceramics. <i>Ferroelectrics</i> , <b>2021</b> , 572, 180-191	0.6	
5	First-principles calculations on ferroelectricity and lattice dynamics of Type-II multiferroic SmMn <sub>2</sub> O <sub>5</sub> . <i>Current Applied Physics</i> , <b>2021</b> , 29, 24-32	2.6	
4	Electrostatic Modulation and Mechanism of the Electronic Properties of Monolayer MoS <sub>2</sub> via Ferroelectric BiAlO <sub>3</sub> (0001) Polar Surfaces. <i>ACS Omega</i> , <b>2021</b> , 6, 26345-26353	3.9	
3	Polarization-dependent H <sub>2</sub> O adsorption on polar surfaces of BiAlO <sub>3</sub> (0001). <i>Materials Today Communications</i> , <b>2022</b> , 103511	2.5	
2	Structural stabilities, electronic structures, photocatalysis and optical properties of EGeN and E <sub>2</sub> NP monolayers: a first-principles study. <i>Materials Research Express</i> , <b>2021</b> , 8, 125010	1.7	
1	Robust ferroelectric-gating-dependent electronic and magnetic properties in a 1T-VSe <sub>2</sub> /BiAlO <sub>3</sub> (0001) multiferroic heterostructure. <i>Materials Today Physics</i> , <b>2022</b> , 26, 100743	8	