# Jian-Qing Dai

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 67 papers | 361 citations | 10 h-index | 15 g-index |
| 70 ext. papers | 460 ext. citations | 3.6 avg, IF | 4.4 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 67 | Mechanism of improving ferroelectric properties of BiFe0.98M0.02O3 (M = Zn, Al, Ti) polycrystalline films. *Journal of Sol-Gel Science and Technology*, **2022**, 101, 420 | 2.3 | |
| 66 | Synergistic magnetic proximity and ferroelectric field effect on a 2H-VS2 monolayer by ferromagnetic termination of a BiFeO3(0001) surface. *Journal of Materials Chemistry C*, **2022**, 10, 1498-1510 | 7.1 | 2 |
| 65 | Enhanced electrical properties of (Zn, Mn)-modified BiFeO3BaTiO3 lead-free ceramics prepared via solgel method and two-step sintering. *Journal of Alloys and Compounds*, **2022**, 899, 163387 | 5.7 | 3 |
| 64 | Polarization-dependent H2O adsorption on polar surfaces of BiAlO3 (0001). *Materials Today Communications*, **2022**, 103511 | 2.5 | |
| 63 | Modulation of electronic and magnetic properties of monolayer 1T-VSe2 by ferroelectric LiNbO3 (0001) surface. *Journal of Physics and Chemistry of Solids*, **2022**, 167, 110745 | 3.9 | 0 |
| 62 | Robust ferroelectric-gating-dependent electronic and magnetic properties in a 1T-VSe2/BiAlO3(0001) multiferroic heterostructure. *Materials Today Physics*, **2022**, 26, 100743 | 8 | |
| 61 | Effect of (Zn, Mn) co-doping on the structure and ferroelectric properties of BiFeO3 thin films. *Ceramics International*, **2021**, 48, 6347-6347 | 5.1 | 1 |
| 60 | Microstructure and properties of nano-laminated Y3Si2C2 ceramics fabricated via in situ reaction by spark plasma sintering. *Journal of Advanced Ceramics*, **2021**, 10, 578-586 | 10.7 | 3 |
| 59 | Indirect-direct band gap transition driven by strain in semiconducting Cu2Se monolayer. *Materials Research Express*, **2021**, 8, 045003 | 1.7 | 0 |
| 58 | Tunable electronic and magnetic properties in 1T-VSe2 monolayer on BiFeO3(0001) ferroelectric substrate. *Applied Surface Science*, **2021**, 547, 149206 | 6.7 | 9 |
| 57 | Enhanced ferroelectric properties of (Zn, Ti) equivalent co-doped BiFeO3 films prepared via the sol-gel method. *Ceramics International*, **2021**, 47, 16776-16785 | 5.1 | 4 |
| 56 | Interface coupling and charge doping in graphene on ferroelectric BiAlO(0001) polar surfaces. *Physical Chemistry Chemical Physics*, **2021**, 23, 3407-3416 | 3.6 | 4 |
| 55 | Enhanced electrical properties by optimizing sintering temperature and dwell time in BiFe0.96Zn0.02Ti0.02O3 ceramics. *Ferroelectrics*, **2021**, 572, 180-191 | 0.6 | |
| 54 | Effects of solvents and Al doping on structure and physical properties of BiFeO3 thin films. *Journal of Sol-Gel Science and Technology*, **2021**, 98, 45-53 | 2.3 | 2 |
| 53 | Phase structure and electrical properties of (1-x)Bi1+yFeO3-xBaTiO3 lead-free ceramics with different Bi contents. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 10289-10298 | 2.1 | 1 |
| 52 | Low temperature seamless joining of SiC using a Ytterbium film. *Journal of the European Ceramic Society*, **2021**, 41, 7507-7507 | 6 | 0 |
| 51 | First-Principles Study of Hydrogen Storage of Sc-Modified Semiconductor Covalent Organic Framework-1. *ACS Omega*, **2021**, 6, 21985-21993 | 3.9 | 2 |

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|---|---|---|---|
| 50 | First-principles calculations on ferroelectricity and lattice dynamics of Type-II multiferroic SmMn2O5. *Current Applied Physics*, **2021**, 29, 24-32 | 2.6 | |
| 49 | Electrostatic Modulation and Mechanism of the Electronic Properties of Monolayer MoS via Ferroelectric BiAlO(0001) Polar Surfaces. *ACS Omega*, **2021**, 6, 26345-26353 | 3.9 | |
| 48 | Electrical properties of (1-x)BiFe0.94Zn0.03Ti0.03O3-xBaTiO3 lead-free ceramics obtained via sol-gel route and two-step sintering process. *Ceramics International*, **2021**, 47, 26383-26390 | 5.1 | 0 |
| 47 | Prominent ferroelectric properties in Mn-doped BiFeO3 spin-coated thin films. *Journal of Alloys and Compounds*, **2021**, 886, 161168 | 5.7 | 4 |
| 46 | Controllable band offset in monolayer MoSe2 driven by surface termination and ferroelectric field of BiFeO3(0001) substrate. *Journal of Solid State Chemistry*, **2021**, 304, 122571 | 3.3 | 1 |
| 45 | Electrostatic doping determined by band alignment in graphene on ferroelectric LiNbO3(0001) polar surfaces. *Computational Materials Science*, **2021**, 200, 110811 | 3.2 | 1 |
| 44 | Structural stabilities, electronic structures, photocatalysis and optical properties of □GeN and □SnP monolayers: a first-principles study. *Materials Research Express*, **2021**, 8, 125010 | 1.7 | |
| 43 | Study of Pt monolayer adsorption on the oppositely polarized BiAlO3 (0□0□0□1) surfaces by ab initio calculations. *Computational Materials Science*, **2020**, 174, 109470 | 3.2 | 2 |
| 42 | Physical properties of Al doped BiFeO3 obtained by sol-gel route and two-step sintering process. *Ceramics International*, **2020**, 46, 7954-7960 | 5.1 | 15 |
| 41 | First-principles study on structural, electronic, and ferroelectric properties of high-temperature RMn2O5 (R = Sm, Gd, Dy). *Materials Today Communications*, **2020**, 22, 100837 | 2.5 | 2 |
| 40 | DFT study of Pt sub-monolayer adsorption on the positive BiFeO3 (0001) surface. *Surface Science*, **2020**, 693, 121553 | 1.8 | |
| 39 | Multiple-valued electric polarization in multiferroic GdMn2O5 from first principles. *Journal of Magnetism and Magnetic Materials*, **2020**, 516, 167373 | 2.8 | 1 |
| 38 | Electronic structure, lattice dynamics, and dielectric properties in cubic perovskite BiMn3Cr4O12 and LaMn3Cr4O12. *Chemical Physics*, **2020**, 538, 110924 | 2.3 | 1 |
| 37 | Ferroelectricity driven by soft phonon and spin order in multiferroic BiMn3Cr4O12. *Journal of the American Ceramic Society*, **2019**, 102, 6048-6059 | 3.8 | 3 |
| 36 | Distinctive electronic and spin structures at the oppositely polarized ferroelectric BiAlO3(0001) surfaces. *Applied Surface Science*, **2019**, 481, 702-711 | 6.7 | 8 |
| 35 | Large Band Offset in Monolayer MoS2 on Oppositely Polarized BiFeO3(0001) Polar Surfaces. *Journal of Physical Chemistry C*, **2019**, 123, 3039-3047 | 3.8 | 8 |
| 34 | Thermal stability and electrical properties of BiFe1□MxO3 (M = Al3+, Ga3+) ceramics. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3647-3654 | 2.1 | 5 |
| 33 | Structure and physical properties of (Zn, Ti) co-doped BiFeO3 ceramics prepared using three different processes. *Ceramics International*, **2019**, 45, 5015-5022 | 5.1 | 9 |

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|---|---|---|---|
| 32 | Effect of Zn and Ti Co-doping on structure and electrical properties of BiFeO3 ceramics. *Ceramics International*, **2018**, 44, 9215-9220 | 5.1 | 23 |
| 31 | Ab initio study of ferroelectric BiAlO3 (0 0 0 1) polar surfaces. *Computational Materials Science*, **2018**, 150, 448-453 | 3.2 | 9 |
| 30 | First-principles investigation of platinum monolayer adsorption on the BiFeO3 (0001) polar surfaces. *Applied Surface Science*, **2018**, 428, 964-971 | 6.7 | 6 |
| 29 | Effect of Surface Termination on Charge Doping in Graphene/BiFeO3(0001) Hybrid Structure. *Journal of Physical Chemistry C*, **2018**, 122, 17250-17260 | 3.8 | 12 |
| 28 | Polarization Direction Dependence of Thermodynamic Stability of Ferroelectric BiAlO3(0001) Polar Surfaces. *Journal of Physical Chemistry C*, **2018**, 122, 29220-29227 | 3.8 | 9 |
| 27 | Influence of oxygen vacancy on electric structure and optical properties of pure and N-doped Sr2M2O7(M = Nb, Ta). *Computational Materials Science*, **2017**, 127, 180-186 | 3.2 | 5 |
| 26 | Thermodynamic Stability of BiFeO (0001) Surfaces from ab Initio Theory. *ACS Applied Materials & Interfaces*, **2017**, 9, 3168-3177 | 9.5 | 26 |
| 25 | Charge doping in graphene on thermodynamically preferred BiFeO(0001) polar surfaces. *Physical Chemistry Chemical Physics*, **2017**, 19, 31352-31361 | 3.6 | 11 |
| 24 | Ab initio studies on phonon, dielectric, and piezoelectric responses in perovskite-like bismuth aluminate. *International Journal of Applied Ceramic Technology*, **2017**, 14, 976-981 | 2 | 3 |
| 23 | Dependence of improper ferroelectricity on the preferred orientation of Mn3 spins in CaMn 7 O 12. *Journal of Magnetism and Magnetic Materials*, **2017**, 424, 314-322 | 2.8 | 4 |
| 22 | First-principles study on the multiferroic BiFeO3 (0001) polar surfaces. *Applied Surface Science*, **2017**, 392, 135-143 | 6.7 | 26 |
| 21 | First-principles study of the phase transition in Cd2Ta2O7. *Ferroelectrics*, **2016**, 502, 76-86 | 0.6 | |
| 20 | Magnetic reconstruction induced magnetoelectric coupling and spin-dependent tunneling in Ni/KNbO3/Ni multiferroic tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2016**, 404, 1-6 | 2.8 | 2 |
| 19 | Hybrid functional study on optical properties of Sr 2 M 2 O 7− N x (M=Nb,Ta) photocatalysts with perovskite-slab structures. *Current Applied Physics*, **2016**, 16, 1-7 | 2.6 | 11 |
| 18 | Tunneling magnetoresistance and electroresistance in Fe/PbTiO3/Fe multiferroic tunnel junctions. *Journal of Applied Physics*, **2016**, 120, 074102 | 2.5 | 6 |
| 17 | Magnetoelectric coupling at the epitaxial Ni/PbTiO3 heterointerface from first principles. *Physica B: Condensed Matter*, **2015**, 456, 383-387 | 2.8 | 4 |
| 16 | First Principles Studies of the Phonon, Polarization, Dielectric and Piezoelectric Responses of Pyrochlore Cd2Nb2O7. *Ferroelectrics*, **2015**, 478, 106-117 | 0.6 | 4 |
| 15 | First-principles investigation of intrinsic dielectric response in Ba(B?1/3B?2/3)O3 with B? as transition metal cations. *Materials Chemistry and Physics*, **2015**, 159, 6-9 | 4.4 | 3 |

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|---|---|---|---|
| 14 | Magnetoelectric coupling and spin-dependent tunneling in Fe/PbTiO3/Fe multiferroic heterostructure with a Ni monolayer inserted at one interface. *Journal of Applied Physics*, **2015**, 118, 054104 | 2.5 | 7 |
| 13 | The preferred orientation of Mn3 spins in magnetic multiferroic CaMn7O12. *Journal of Magnetism and Magnetic Materials*, **2015**, 396, 135-139 | 2.8 | 5 |
| 12 | Ferroelectric phase transition and spontaneous electric polarization in CaMn7O12from first principles. *New Journal of Physics*, **2015**, 17, 113038 | 2.9 | 12 |
| 11 | Influences of interfacial terminations on electronic structure and magnetoelectric coupling in Fe/KNbO 3 superlattices. *Chemical Physics Letters*, **2015**, 619, 163-168 | 2.5 | 10 |
| 10 | First-principles study of the phonon, dielectric, and piezoelectric response in Bi2ZnTiO6 supercell. *Computational Materials Science*, **2015**, 101, 227-232 | 3.2 | 7 |
| 9 | Influences of B-site Cations on Intrinsic Dielectric Properties of Ba(B?1/3B??2/3)O3 Materials. *Ferroelectrics*, **2014**, 467, 22-32 | 0.6 | 1 |
| 8 | Large magnetoelectric coupling in ferromagnetic/ferroelectric superlattices with asymetric interfaces. *Journal of Magnetism and Magnetic Materials*, **2014**, 354, 299-302 | 2.8 | 2 |
| 7 | Electronic structure and static dielectric response of Ba(Mn1/3Nb2/3)O3 from first principles. *Solid State Communications*, **2013**, 154, 1-5 | 1.6 | 4 |
| 6 | Structural, electronic, and polarization properties of Bi2ZnTiO6 supercell from first-principles. *Journal of Applied Physics*, **2012**, 111, 114101 | 2.5 | 8 |
| 5 | First-principles study of phonons and intrinsic dielectric response of Ba(Ni1/3Ta2/3)O3. *Computational Materials Science*, **2012**, 65, 81-84 | 3.2 | 3 |
| 4 | Interfacial electronic structure and magnetoelectric effect in M/BaTiO3 (M=Ni, Fe) superlattices. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 3937-3943 | 2.8 | 22 |
| 3 | Enhancement of magnetoelectric effect by combining different interfacial coupling mechanisms. *Journal of Applied Physics*, **2012**, 111, 114301 | 2.5 | 24 |
| 2 | Strong modulation of electronic properties of monolayer MoTe2 using a ferroelectric LiNbO3(0001) substrate. *Journal of Materials Chemistry C*, | 7.1 | 1 |
| 1 | Enhanced electrical properties of 0.7BiFeO3–0.3BaTiO3 lead-free ceramics obtained by optimizing the calcination temperature and time. *Journal of Materials Science: Materials in Electronics*,1 | 2.1 | 0 |