

# Quan-Jie Jia

## List of Publications by Year in descending order

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62  
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all docs

63  
docs citations

63  
times ranked

1225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conceptual design of a simple small angle X-ray scattering (SAXS) beamline. Instrumentation Science and Technology, 2021, 49, 560-570.	0.9	1
2	Ge <sub>x</sub> Si <sub>1-x</sub> virtual-layer enhanced ferromagnetism in self-assembled Mn <sub>0.06</sub> Ge <sub>0.94</sub> quantum dots grown on Si wafers by molecular beam epitaxy. Nanoscale, 2020, 12, 3997-4004.	2.8	3
3	Finite-element simulation for X-ray volume diffractive optics based on the wave optical theory. Optics Express, 2020, 28, 34973.	1.7	2
4	Effect of Nd/Mn substitution on the structure and magnetic properties of nano-BiFeO <sub>3</sub> . Journal of Alloys and Compounds, 2019, 786, 385-393.	2.8	17
5	Pressure-induced phase transitions and structural evolution across the insulator-metal transition in bulk and nanoscale BiFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2019, 31, 265404.	0.7	4
6	Local insight into the La-induced structural phase transition in multiferroic BiFeO <sub>3</sub> ceramics by x-ray absorption fine structure spectroscopy. Journal of Physics Condensed Matter, 2019, 31, 085402.	0.7	7
7	Dislocation-related photoluminescence of GeSn films grown on Ge (001) substrates by molecular beam epitaxy. Semiconductor Science and Technology, 2018, 33, 125022.	1.0	8
8	Local structural changes during the disordered substitutional alloy transition in Bi <sub>2</sub> Te <sub>3</sub> by high-pressure XAFS. Journal of Applied Physics, 2018, 124, 065901.	1.1	7
9	Enhanced magnetoresistance at wide temperature range in [Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> ] <sub>20</sub> superlattice on (001) MgO. Journal of Materials Science: Materials in Electronics, 2017, 28, 6233-6238.	1.1	2
10	Revisiting local structural changes in GeO <sub>2</sub> glass at high pressure. Journal of Physics Condensed Matter, 2017, 29, 465401.	0.7	8
11	Carrier effects on ferromagnetism of Mn <sub>x</sub> Ge <sub>1-x</sub> quantum dots. Applied Physics Letters, 2017, 111, 072103.	1.5	2
12	Out-of-plane easy-axis in thin films of diluted magnetic semiconductor Ba <sub>1-x</sub> K <sub>x</sub> (Zn <sub>1-y</sub> Mn <sub>y</sub> ) <sub>2</sub> As <sub>2</sub> . AIP Advances, 2017, 7, .	0.6	13
13	Studies on strain relaxation of La <sub>0.5</sub> Ba <sub>0.5</sub> MnO <sub>3</sub> film by normal and grazing incidence X-ray diffraction. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
14	Photoinduced coherent acoustic phonon dynamics inside Mott insulator Sr <sub>2</sub> IrO <sub>4</sub> films observed by femtosecond X-ray pulses. Applied Physics Letters, 2017, 110, .	1.5	3
15	Research Update: Strain and composition effects on ferromagnetism of Mn <sub>0.05</sub> Ge <sub>0.95</sub> quantum dots. APL Materials, 2016, 4, .	2.2	10
16	Fabrication and ferromagnetism of Si/SiGe/MnGe core-shell nanopillars. Nanotechnology, 2016, 27, 405705.	1.3	6
17	Magnetostriction and microstructure of melt-spun Fe <sub>77</sub> Ga <sub>23</sub> ribbons prepared with different wheel velocities. Transactions of Nonferrous Metals Society of China, 2015, 25, 122-128.	1.7	2
18	Effect of surface inhomogeneities on crystalline structure and magnetic properties of epitaxial Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> film on (001) SrTiO <sub>3</sub> . Applied Physics A: Materials Science and Processing, 2015, 119, 609-614.	1.1	2

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19	Nuclear resonant inelastic X-ray scattering at high pressure and low temperature. Journal of Synchrotron Radiation, 2015, 22, 760-765.	1.0	14
20	Exchange bias induced by the fully strained La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> dead layers. Journal of Applied Physics, 2014, 115, 17D701.	1.1	2
21	Three-dimensional strain state and spacer thickness-dependent properties of epitaxial Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> /Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> trilayer structure. Journal of Applied Physics, 2014, 115, 233911.	1.1	16
22	1,8-Diiodooctane as the Processing Additive to Improve the Efficiency of P3HT:PCBM Solar Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 3592-3596.	0.9	7
23	Continuous X-ray multiple-beam diffraction with primary Bragg angle from 0 to 90°. Journal of Applied Crystallography, 2014, 47, 1716-1721.	1.9	6
24	Enhanced performance of inverted organic photovoltaic cells using CNTs/TiO <sub>2</sub> nanocomposites as electron injection layer. Nanotechnology, 2013, 24, 355401.	1.3	14
25	Optimization of the in-line X-ray phase-contrast imaging setup considering edge-contrast enhancement and spatial resolution. Chinese Physics C, 2012, 36, 267-274.	1.5	5
26	MAGNETIC AND TRANSPORT PROPERTIES OF Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> Trilayer Structure. International Journal of Modern Physics B, 2012, 26, 1250132.	1.0	5
27	The point defect structure and its transformation in As-implanted ZnO crystals. Journal Physics D: Applied Physics, 2012, 45, 085103.	1.3	6
28	Growth and morphological characterization of zinc nanoplates. Science China Technological Sciences, 2012, 55, 2646-2650.	2.0	1
29	Direct preparation and microstructure investigation of p-type transparent conducting Ga-doped SnO <sub>2</sub> thin films. Powder Diffraction, 2010, 25, S36-S39.	0.4	2
30	Strain Effect in Cation Disorder Manganite Films. Journal of Superconductivity and Novel Magnetism, 2010, 23, 867-870.	0.8	0
31	Preparation and application in p-n homojunction diode of p-type transparent conducting Ga-doped SnO <sub>2</sub> thin films. Thin Solid Films, 2010, 518, 5542-5545.	0.8	62
32	Dislocation density and strain distribution in SrTiO <sub>3</sub> film grown on (111) DyScO <sub>3</sub> substrate. Journal Physics D: Applied Physics, 2009, 42, 105307.	1.3	23
33	Strain and magnetic anisotropy of as-grown and annealed Fe films on c(4×4) reconstructed GaAs (001) surface. Journal of Applied Physics, 2009, 106, .	1.1	12
34	Focusing synchrotron radiation using a polycapillary half-focusing X-ray lens for imaging. Journal of Synchrotron Radiation, 2009, 16, 116-118.	1.0	18
35	Phase contrast synchrotron X-ray microtomography of Ediacaran (Doushantuo) metazoan microfossils: Phylogenetic diversity and evolutionary implications. Precambrian Research, 2009, 173, 191-200.	1.2	52
36	Effect of indium-doped interlayer on the strain relief in GaN films grown on Si(111). Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 294-299.	0.8	0

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37	Measurement of the thickness-dependent magnetic anisotropy of $\text{Co}/\text{Ga}/\text{As}$ multilayers. Physical Review B, 2008, 77, .	1.1	13
38	Characteristics of the low electron density surface layer on BaTiO <sub>3</sub> thin films. Applied Physics Letters, 2008, 92, .	1.5	21
39	Effect of an indium-doped barrier on enhanced near-ultraviolet emission from InGaN/AlGaIn multiple quantum wells grown on Si(111). Nanotechnology, 2007, 18, 015402.	1.3	5
40	Effect of strain on the transport and magnetoresistance properties of La <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> epitaxial thin films. Journal Physics D: Applied Physics, 2007, 40, 2723-2727.	1.3	3
41	Magnetocrystalline Anisotropy in Permalloy Revisited. Physical Review Letters, 2006, 97, 067203.	2.9	91
42	Characterization of surface and interface structure of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> -based trilayer with La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> spacer. Journal of Applied Physics, 2006, 99, 08M509.	1.1	10
43	Crack control in GaN grown on silicon (111) using In doped low-temperature AlGaIn interlayer by metalorganic chemical vapor deposition. Optical Materials, 2006, 28, 1227-1231.	1.7	5
44	Temperature dependence of the formation of nano-scale indium clusters in InAlGaIn alloys on Si(111) substrates. Nanotechnology, 2006, 17, 1251-1254.	1.3	21
45	Room-temperature ferromagnetism in zinc-blende and deformed CrAs thin films. Applied Physics Letters, 2006, 88, 142509.	1.5	26
46	Temperature dependence of interfacial fluctuations of polymerized fatty acid salt multilayers. Journal of Chemical Physics, 2005, 122, 124712.	1.2	10
47	Experimental evidence of the "dead layer" at Pt/BaTiO <sub>3</sub> interface. Applied Physics Letters, 2005, 87, 222905.	1.5	43
48	POSSIBLE ABNORMAL MECHANISM FOR LATTICE STRAIN RELAXATION IN La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> THIN FILM. International Journal of Modern Physics B, 2005, 19, 2415-2420.	1.0	2
49	Influence of dislocations on photoluminescence of InGaIn/GaN multiple quantum wells. Applied Physics Letters, 2005, 87, 071908.	1.5	53
50	Effects of oxidation by O <sub>2</sub> plasma on formation of Ni/Au ohmic contact to p-GaN. Journal of Applied Physics, 2004, 96, 2091-2094.	1.1	4
51	MICROSTRUCTURES AND STRAIN RELAXATION IN MODULATION-DOPED Al <sub>x</sub> Ga <sub>1-x</sub> N/GaN HETEROSTRUCTURES. International Journal of Modern Physics B, 2004, 18, 989-998.	1.0	3
52	Study on pyrite FeS <sub>2</sub> films deposited on Si(100) substrate by synchrotron radiation surface X-ray diffraction method. Journal of Crystal Growth, 2004, 268, 222-226.	0.7	7
53	Microstructures of epitaxial thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> deposited on silicon wafers. Superconductor Science and Technology, 2003, 16, 590-594.	1.8	3
54	Microstructures and resistivity of cuprate/manganite bilayer deposited on SrTiO <sub>3</sub> substrate. Journal of Applied Physics, 2003, 93, 8215-8217.	1.1	12

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55	Relation between microstructures and magnetic properties upon annealing in Fe <sub>50</sub> Mn <sub>50</sub> /Ni <sub>80</sub> Fe <sub>20</sub> films. Journal of Applied Physics, 2002, 92, 2052-2057.	1.1	26
56	Surface roughness exponent and non-designed cap layer in PbZr <sub>0.53</sub> Ti <sub>0.47</sub> O <sub>3</sub> /La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> bilayers. Journal Physics D: Applied Physics, 2000, 33, 2363-2368.	1.3	2
57	Lattice strains and composition of self-organized Ge dots grown on Si(001). Applied Physics Letters, 2000, 76, 3397-3399.	1.5	49
58	Anomalous strains in the cubic-phase GaN films grown on GaAs (001) by metalorganic chemical vapor deposition. Journal of Applied Physics, 2000, 88, 3762-3764.	1.1	9
59	X-ray reflectivity measurement of $\hat{\Gamma}$ -doped erbium profile in silicon molecular-beam epitaxial layer. Physical Review B, 1999, 59, 10697-10700.	1.1	3
60	Interfacial structure of molecular beam epitaxial grown cubic-GaN films on GaAs(001) probed by x-ray grazing-angle specular reflection. Applied Physics Letters, 1999, 74, 2981-2983.	1.5	9
61	Study of strain in partially relaxed Ge epilayers on Si(100) substrate. Applied Physics Letters, 1999, 75, 370-372.	1.5	12
62	Depth Profile of Delta-doped Semiconductors by X-Ray Reflection Technique. Japanese Journal of Applied Physics, 1999, 38, 261.	0.8	0