

Zhi-qing Li

List of Publications by Year in descending order

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149
papers

2,360
citations

236612

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264894

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151
all docs

151
docs citations

151
times ranked

2912
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of WC particle behavior on the wear resistance properties of Niâ€“WC composite coatings. <i>Wear</i> , 2004, 257, 142-147.	1.5	175
2	Role of point defects in room-temperature ferromagnetism of Cr-doped ZnO. <i>Applied Physics Letters</i> , 2007, 91, 072511.	1.5	155
3	Rational Design of Spinel Cobalt Vanadate Oxide Co_2VO_4 for Superior Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e1907168.	11.1	134
4	Variable-range-hopping conduction processes in oxygen deficient polycrystalline ZnO films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	82
5	Electrical resistivities and thermopowers of transparent Sn-doped indium oxide films. <i>Journal of Applied Physics</i> , 2004, 96, 5918-5920.	1.1	74
6	Giant Hall Effect in Nonmagnetic Granular Metal Films. <i>Physical Review Letters</i> , 2001, 86, 5562-5565.	2.9	65
7	Electronic structure and optical properties of Nb-doped anatase TiO ₂ . <i>Applied Physics Letters</i> , 2008, 92, 252104.	1.5	65
8	Role of structural defects on ferromagnetism in amorphous Cr-doped TiO ₂ films. <i>Applied Physics Letters</i> , 2006, 89, 042511.	1.5	57
9	Electrical conduction processes in ZnO in a wide temperature range 20â€“500 K. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	54
10	Electronic structure and optical properties of Sb-doped SnO ₂ . <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	53
11	Tuning Spin State of Rockâ€“Saltâ€“Based Oxides by Manipulation of Crystallinity for Efficient Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1703469.	10.2	48
12	Low temperature electrical transport properties of B-doped ZnO films. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	44
13	Laser Dispersion of Detonation Nanodiamonds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4099-4102.	7.2	44
14	Identifying the descriptor governing NO oxidation on mullite $\text{Sm}(\text{Y}, \text{Tb}, \text{Gd})_2\text{TjETQqO}_0\text{O}_0\text{rgBT}$ /Overlock 10 Tf 50 227 Td (Lu) $\text{Mn}_{x/2}$. <i>Applied Physics Letters</i> , 2016, 6, 3971-3975.	2.1	44
15	Electronic conduction properties of indium tin oxide: single-particle and many-body transport. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 343201.	0.7	39
16	Structure and magnetic properties of facing-target sputtered Coâ€“C granular films. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 2393-2399.	1.3	34
17	Classical linear magnetoresistance in epitaxial graphene on SiC. <i>Applied Physics Letters</i> , 2014, 105, 182102.	1.5	34
18	Optical and electrical transport properties of facing-target sputtered Al doped ZnO transparent film. <i>Journal of Applied Physics</i> , 2006, 99, 124906.	1.1	31

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19	Energy gap induced by the surface optical polaron in graphene on polar substrates. Applied Physics Letters, 2015, 106, .	1.5	30
20	Electron dephasing in homogeneous and inhomogeneous indium tin oxide thin films. Physical Review B, 2012, 85, .	1.1	28
21	Evolution of structure, magnetic and transport properties of sputtered films from Fe to Fe ₃ O ₄ . Journal Physics D: Applied Physics, 2006, 39, 5109-5115.	1.3	27
22	A theoretical design of half-metallic compounds by a long range of doping Mn for Heusler-type Cr ₃ Al. Journal of Applied Physics, 2009, 105, .	1.1	27
23	Large extraordinary Hall effect and anomalous scaling relations between the Hall and longitudinal conductivities in $\mu\text{-Fe}$ films. Physical Review B, 2009, 80, .	1.1	26
24	Logarithmic temperature dependence of Hall transport in granular metals. Physical Review B, 2011, 84, .	1.1	26
25	First-principles calculations on the electronic structure and bonding nature of TaN(111)/TiN(111) interface. Journal of Alloys and Compounds, 2017, 717, 326-332.	2.8	26
26	Bulk Sn _{1-x} Mn _x O ₂ magnetic semiconductors without room-temperature ferromagnetism. Solid State Communications, 2006, 138, 175-178.	0.9	25
27	Magnetic, electrical transport and electron spin resonance studies of Fe-doped manganite LaMn _{0.7} Fe _{0.3} O ₃ . Journal of Magnetism and Magnetic Materials, 2007, 313, 354-360.	1.0	25
28	Structural and mechanical properties of facing-target sputtered amorphous CN _x films. Diamond and Related Materials, 2006, 15, 1732-1737.	1.8	23
29	Effect of annealing on polycrystalline La _{1-x} NaxMnO _z ceramics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 277, 56-60.	0.9	22
30	Disorder-dominated linear magnetoresistance in topological insulator Bi ₂ Se ₃ thin films. Applied Physics Letters, 2017, 111, .	1.5	22
31	Structure and RT ferromagnetism of Fe-doped AlN films. Applied Surface Science, 2007, 253, 5431-5435.	3.1	20
32	Structure and magnetic properties of RF sputtered Fe _{1-x} N films. Journal Physics D: Applied Physics, 2004, 37, 1429-1433.	1.3	19
33	Ferromagnetic properties of bulk Cu _{1-x} Mn _x O magnetic semiconductors. Physical Review B, 2007, 75, .	1.1	19
34	Structures, optical properties, and electrical transport processes of SnO ₂ films with oxygen deficiencies. Physica Status Solidi (B): Basic Research, 2013, 250, 2145-2152.	0.7	19
35	Magnetic and electronic properties of charge ordered Nd _{0.8} Na _{0.2} MnO ₃ . Journal of Magnetism and Magnetic Materials, 2004, 284, 133-139.	1.0	18
36	L10 phase transformation and magnetic behaviors of (Fe, FePt, FePtCu) _{1-x} C nanocomposite films. Journal of Applied Physics, 2005, 97, 124303.	1.1	18

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37	Annealing effects on the microstructure of amorphous carbon nitride films. Applied Surface Science, 2006, 253, 2087-2092.	3.1	18
38	The effect of Fe doping on structural, magnetic and electrical transport properties of $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_3$ ($x=0\text{--}0.35$). Solid State Communications, 2007, 142, 525-530.	0.9	18
39	Microstructure of amorphous carbon nitride films fabricated by facing-target reactive magnetron sputtering. Journal Physics D: Applied Physics, 2004, 37, 2127-2134.	1.3	16
40	Structural and electrical transport properties of Nb-doped TiO_2 films deposited on LaAlO_3 by rf sputtering. Applied Surface Science, 2009, 255, 8104-8109.	3.1	16
41	Polaron effect on the bandgap modulation in monolayer transition metal dichalcogenides. Journal of Physics Condensed Matter, 2017, 29, 485001.	0.7	16
42	Magneto-transport properties and electronic structure of $\text{La}_{0.85}\text{Na}_{0.15}\text{MnO}_3$. Physica Status Solidi A, 2003, 195, 429-433.	1.7	15
43	Giant Hall effect in nonmagnetic MoSnO_3 films. Physical Review B, 2010, 82, .	1.5	15
44	Observation of double percolation transitions in Ag-SnO_2 nanogranular films. Applied Physics Letters, 2013, 102, 131911.	1.5	15
45	Magnetic, electrical transport and electron spin resonance studies of charge-ordered $\text{Nd}_{0.75}\text{Na}_{0.25}\text{MnO}_3$. Physica B: Condensed Matter, 2004, 348, 146-150.	1.3	14
46	Magnetic properties of the charge ordered $\text{Nd}_{0.75}\text{Na}_{0.25}\text{MnO}_3$. Solid State Communications, 2004, 130, 563-566.	0.9	14
47	Fabrication and characterization of facing-target reactive sputtered polycrystalline TiO_2 films. Applied Surface Science, 2006, 253, 425-431.	3.1	14
48	Dependence of soft magnetic properties and high frequency characteristics on film thickness for $\text{Ni}_{75}\text{Fe}_{25}\text{-ZnO}$ nano-granular films. Journal of Alloys and Compounds, 2012, 513, 23-26.	2.8	14
49	Magnetic properties and charge ordering in $\text{Pr}_{0.75}\text{Na}_{0.25}\text{MnO}_3$ manganite. Solid State Communications, 2005, 135, 356-360.	0.9	13
50	Facing-target sputtered Fe-C granular films: Structural and magnetic properties. Journal of Applied Physics, 2005, 97, 043903.	1.1	13
51	Influence of Coulomb interaction on the electrical transport properties of ultrathin Al:ZnO films. Applied Physics Letters, 2012, 100, 262101.	1.5	13
52	Characterization of facing-target reactive sputtered polycrystalline Fe_3O_4 films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 390-395.	0.9	12
53	Electrical transport properties of Ag_3Sn compound. Solid State Communications, 2011, 151, 1496-1499.	0.9	12
54	Extraordinary Hall effect and universal scaling in $\text{Fe}_{1-x}\text{(ZnO)}_x$ granular thin films at room temperature. Applied Physics Letters, 2015, 106, .	1.5	12

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55	The influence of temperature on vertical Bloch lines in the walls of hard domains in the uncompressed state. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 227, 127-132.	0.9	11
56	Spin Singlet-Triplet Energy Splitting in the Ground State of a Quantum Dot with a Magnetic Field: Effect of Dimensionality. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 677-680.	0.4	11
57	Influence of oxygen partial pressure on the ferromagnetic properties of polycrystalline Cr-doped ZnO films. <i>Europhysics Letters</i> , 2008, 84, 27005.	0.7	11
58	Low temperature specific heat and thermal conductivity of bulk metallic glass (Cu ₅₀ Zr ₅₀) ₉₄ Al ₆ . <i>Solid State Communications</i> , 2009, 149, 1527-1530.	0.9	11
59	Influence of Cr-doping on the magnetic and electrical transport properties of Nd _{0.75} Na _{0.25} MnO ₃ . <i>Journal of Rare Earths</i> , 2011, 29, 230-234.	2.5	11
60	Electrical transport properties of Al-doped ZnO films. <i>Applied Surface Science</i> , 2012, 263, 486-490.	3.1	11
61	Electron-electron interaction effect on longitudinal and Hall transport in thin and thick Ag _x (SnO ₂) _{1-x} granular metals. <i>Physical Review B</i> , 2015, 91, .	1.1	11
62	Influence of exciton-phonons coupling on the exciton binding energy in monolayer transition metal dichalcogenides. <i>Applied Physics Letters</i> , 2017, 110, 231603.	1.5	11
63	Charge ordering, magnetic, electrical transport and thermal transport properties of Nd _{0.75} Na _{0.25} MnO ₃ manganite. <i>Physica B: Condensed Matter</i> , 2006, 371, 177-181.	1.3	10
64	Anomalous Hall effects in Co ₂ FeSi Heusler compound films and Co ₂ FeSi-Al ₂ O ₃ granular films. <i>Journal of Applied Physics</i> , 2012, 111, 083919.	1.1	10
65	Electron-electron scattering in three-dimensional highly degenerate semiconductors. <i>Europhysics Letters</i> , 2013, 103, 47002.	0.7	10
66	Multiphonon Raman scattering mediated by the exciton states in monolayer transition metal chalcogenides. <i>Physical Review B</i> , 2019, 100, .	1.1	10
67	Zero-Field-Cooled Magnetization and Coercivity of Itinerant Ferromagnet SrRuO ₃ . <i>Physica Status Solidi A</i> , 2002, 191, 597-604.	1.7	9
68	Zero-field-cooled and field-cooled magnetization of itinerant magnetic system Sr _{1-x} CaxRuO ₃ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 298, 207-210.	0.9	9
69	Competition between the charge ordered and ferromagnetic states in (La,Nd) _{0.75} Na _{0.25} MnO ₃ manganites. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 325, 430-434.	0.9	9
70	The influence of experimental procedures on the structural and magnetic properties of RF sputtered Fe ₈₀ Ni ₂₀ alloy films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 292, 227-233.	1.0	9
71	Method to improve high-frequency magnetic characteristics of Fe ₈₀ Ni ₂₀ alloy films by introducing low-dose oxygen. <i>Materials Letters</i> , 2012, 67, 99-102.	1.3	9
72	Linear temperature behavior of thermopower and strong electron-electron scattering in thick F-doped SnO ₂ films. <i>Applied Physics Letters</i> , 2014, 105, 042110.	1.5	9

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91	Antiferromagnetic-coupling-induced magnetoresistance enhancement in $\text{Fe}_x(\text{TiO}_2)_{1-x}$ films. Applied Physics Letters, 2006, 88, 232502.	1.5	5
92	Striped domains in soft magnetic FeNiN thin films. Journal Physics D: Applied Physics, 2007, 40, 955-959.	1.3	5
93	Fabrication and characterization of orientated grown AlN films sputtered at room temperature. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1130-1137.	0.8	5
94	Tunable electric properties of half-metallic $\text{Zn}_{1-x}\text{Fe}_{3x}\text{O}_4$ and the characteristics of $\text{Zn}_{1-x}\text{Fe}_{3x}\text{O}_4$ /%In-type Si interfaces. Journal Physics D: Applied Physics, 2016, 49, 095301.	1.3	5
95	Correction of the exciton Bohr radius in monolayer transition metal dichalcogenides. Solid State Communications, 2018, 275, 53-57.	0.9	5
96	Enhancement of Anomalous Hall Effect via Interfacial Scattering in Metal-Organic Semiconductor $\text{Fe}_x(\text{C}_6\text{O})_{1-x}$ Granular Films Near the Metal-Insulator Transition. Advanced Functional Materials, 2019, 29, 1808747.	7.8	5
97	Multiphonon resonance Raman scattering in Landau-quantized graphene. Carbon, 2019, 141, 1-5.	5.4	5
98	Quantum defect-assisted multiphonon Raman scattering in metal halide perovskites. Journal of Physics Condensed Matter, 2021, 33, 145702.	0.7	5
99	Self-Trapped Interlayer Excitons in van der Waals Heterostructures. Journal of Physical Chemistry Letters, 2022, 13, 3732-3739.	2.1	5
100	Simultaneous structural, magnetic, and electronic transition and electronic structure in $\text{La}_{0.85}\text{Na}_{0.15}\text{MnO}_3$. Journal of Magnetism and Magnetic Materials, 2001, 237, 143-146.	1.0	4
101	Interdiffusion in low-temperature annealed amorphous CoMoN/CN compound soft-x-ray optical multilayer mirrors. Journal of Physics Condensed Matter, 2003, 15, 1235-1246.	0.7	4
102	Annealing effects on the structure and magnetic properties of Fe^{13}C granular films. Journal of Physics Condensed Matter, 2004, 16, 5569-5582.	0.7	4
103	The growth of soft magnetic FeNiN thin films under different experimental procedures. Journal of Magnetism and Magnetic Materials, 2007, 312, 147-152.	1.0	4
104	Coulomb impurity effects on the zero-Landau level splitting of graphene on polar substrates. Superlattices and Microstructures, 2017, 104, 178-185.	1.4	4
105	A Study on Set Process and Its Influence on Performance of Resistive Switching. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700546.	0.8	4
106	Renormalization of the exciton mass in monolayer transition metal dichalcogenides. Journal of Physics and Chemistry of Solids, 2019, 129, 81-85.	1.9	4
107	Charge ordering characteristics in $\text{Y}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganite. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 512-516.	0.9	3
108	The in-plane magnetic anisotropy of RF-sputtered FeNiN thin films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 350-356.	0.8	3

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109	Large magnetoresistance in (In, Zn)As/InAs p-n junction. Europhysics Letters, 2013, 102, 37009.	0.7	3
110	Simultaneous observation of small- and large-energy-transfer electron-electron scattering in three-dimensional indium oxide thick films. Europhysics Letters, 2016, 114, 37002.	0.7	3
111	Self-energy effect and Coulomb potential modulation of the exciton in monolayer MoS ₂ on polar substrate. Journal Physics D: Applied Physics, 2017, 50, 475306.	1.3	3
112	Disorder and magnetic field induced Bose-metal state in two-dimensional Ta _x (SiO ₂) _{1-x} granular films. Physical Review B, 2020, 102, .	1.1	3
113	Electrical transport properties of thick and thin Ta-doped SnO ₂ films. Journal of Applied Physics, 2022, 131, .	1.1	3
114	Dual-facing-target-sputtered amorphous CoMoN/CN compound soft-X-ray multilayers: structures and thermal stability. Applied Physics A: Materials Science and Processing, 2003, 77, 533-541.	1.1	2
115	Possible paths towards magic clusters formation. Computational and Theoretical Chemistry, 2005, 728, 203-207.	1.5	2
116	Enhancement of magnetization in sputtered polycrystalline Fe ₃ O ₄ /Al bilayers. Journal Physics D: Applied Physics, 2006, 39, 3726-3730.	1.3	2
117	Thermal conductivity and infrared spectra study of polycrystalline La _{0.67} Ca _{0.33} MnO ₃ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 360, 348-351.	0.9	2
118	Epitaxial growth La _{0.67} Ca _{0.33} MnO ₃ thin film by radio frequency sputtering method. Applied Surface Science, 2008, 254, 6959-6961.	3.1	2
119	Shell-Resolved Melting Kinetics of Icosahedral Cluster. Journal of Nanoscience and Nanotechnology, 2009, 9, 2051-2054.	0.9	2
120	The optical phonon resonance scattering with spin-conserving and spin-flip processes between Landau levels in graphene. Journal of Physics Condensed Matter, 2014, 26, 395302.	0.7	2
121	Magneto-optical transitions in monolayer molybdenum disulphide on polar substrates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3843-3846.	0.9	2
122	Quasireentrant superconductivity and enhanced critical field in thick Pb _{1-x} SiO _{2-x} granular films. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700070.	1.2	2
123	The variation of electrical transport properties with thickness for ultrathin indium oxide films. Physica Status Solidi (B): Basic Research, 2017, 254, 1600648.	0.7	2
124	Electron effective mass and electronic structure in nonstoichiometric amorphous Indium Gallium Zinc Oxide films. Journal of Alloys and Compounds, 2020, 813, 152183.	2.8	2
125	An Explanation for High Defect Tolerance in Metal Halide Perovskite Quantum Dots. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100016.	1.2	2
126	Infrared optical absorption of magnetopolaron resonance states in graphene on the polar substrates. Journal of Physics Condensed Matter, 2020, 32, 425005.	0.7	2

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127	Energy Resonance Transfer between Quantum Defects in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 11182-11190.	2.1	2
128	The theory analysis of the field dependence of the magnetoresistance of La _{0.7} Ca _{0.3} MnO ₃ film. Journal of Magnetism and Magnetic Materials, 2001, 237, 55-60.	1.0	1
129	Preisach studies on ZFC/FC magnetization behavior of sintered SrRuO ₃ . Journal of Magnetism and Magnetic Materials, 2003, 256, 279-285.	1.0	1
130	Competition between the double exchange and charge ordering interactions in the bandwidth controlled (La,Nd) _{0.8} Na _{0.2} MnO ₃ manganites. Physica B: Condensed Matter, 2004, 351, 114-120.	1.3	1
131	Electronic transport studies on Sb _{1-x} (SiO ₂) _x films. Journal of Physics Condensed Matter, 2005, 17, 2553-2562.	0.7	1
132	Characterization of Cu additive FePt/C granular films. Applied Surface Science, 2006, 252, 8688-8694.	3.1	1
133	Magnetic, electrical transport and electron spin resonance studies of ferromagnetic insulating manganites Nd _{0.85} Na _{0.15} MnO ₃ . Journal of Magnetism and Magnetic Materials, 2006, 305, 352-356.	1.0	1
134	Influence of polarity of set voltage on the properties of conductive filaments in NiO based nonvolatile memory device. Solid-State Electronics, 2017, 129, 120-124.	0.8	1
135	Longitudinal and Hall Transport in Amorphous InGaZnO ₄ Films Prepared by rf Sputtering Method. Physica Status Solidi (B): Basic Research, 2017, 254, 1700133.	0.7	1
136	Effect of Exciton-Phonon Coupling on the Interlayer Excitons in Transition Metal Dichalcogenides Double Layers. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800306.	1.2	1
137	Granular-composite-like electrical transport properties of polycrystalline cubic TaN x thin films prepared by rf sputtering method. Solid State Communications, 2018, 279, 34-38.	0.9	1
138	Universal Hall Coefficient Correction in Strongly Coupled CrSiO ₂ Nanogranular Metals. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900123.	1.2	1
139	Multiphonon Raman Scattering in Transition Metal Dichalcogenide Double Layers. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900517.	1.2	1
140	Multiphonon replicas of the excitonic spectroscopy in monolayer transition metal chalcogenides. Journal of Applied Physics, 2020, 128, 204302.	1.1	1
141	Effective velocities of polaron spin states in monolayer transition metal dichalcogenides. Journal of Physics Condensed Matter, 2021, 33, 235303.	0.7	1
142	Influence of Surface Adsorption on the Electrical Transport Properties of Ultrathin Indium Tin Oxide Films. Journal of Physical Chemistry C, 2021, 125, 16858-16863.	1.5	1
143	High-mobility two-dimensional electron gas in $\text{SrTiO}_3/\text{LaAlO}_3$ heterostructures. Physical Review B, 2022, 105, .		
144	TEM observation on the microstructure of Co doped C films. Physica Status Solidi A, 2005, 202, 1980-1986.	1.7	0

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145	Enhanced room temperature magnetoresistance in manganites $\text{La}_{0.60}\text{Sr}_{0.25}\text{Na}_{0.15}\text{MnO}_3$. <i>Rare Metals</i> , 2006, 25, 515-520.	3.6	0
146	Microstructure and thermal stability of Al-Ti alloys prepared by mechanical milling and reactive sintering. <i>Powder Metallurgy</i> , 2007, 50, 28-32.	0.9	0
147	Dislocation Stimulus Dependence of Atomic Collective Vibration in an Icosahedral Cluster. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4668-4672.	0.9	0
148	Optical spectra of the quantum defects in metal halide perovskites. <i>Applied Physics Letters</i> , 2021, 119, 232102.	1.5	0
149	Crystalline and Electronic Structures of Ultrathin Cadmium Sulfide Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 0, , .	1.2	0