Guang Tao Fei

List of Publications by Year
in descending order

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117	2,323	230014	299063
papers	citations	27 h-index	42 g-index

120	120	120	3471
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing the truncated conical geometry of nanochannels in anodic aluminium oxide membranes. Nanoscale, 2022, 14, 5356-5368.	2.8	4
2	Synthesis of Polyaniline Coating on the Modified Fiber Ball and Application for Cr(VI) Removal. Nanoscale Research Letters, 2021, 16, 58.	3.1	11
3	Ultrafast dynamics of photoconductivity in lead sulfide nanocrystals in terahertz region. Journal of Alloys and Compounds, 2021, 867, 158873.	2.8	3
4	All-Optical-Input Transistors with Light-Controlled Enhancement and Fast Stabilization of Hot-Electron Photocurrent. Journal of Physical Chemistry C, 2021, 125, 18887-18895.	1.5	0
5	Preparation of double-layer two wavelength infrared antireflective coating on CdSe substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127329.	2.3	3
6	Plasmonic ordered pore array Ag film coated glass: transparent and solar heat reflective material. Nanotechnology, 2020, 31, 145203.	1.3	1
7	Double-layer anti-reflection coating of SiO₂â€“TiO₂/SiO₂â€“TiO₂-PEG300 with high transmittance and super-hydrophilicity. Materials Research Express, 2020, 7, 096402.	0.8	7
8	Porous Ag/TiO₂-Schottky-diode based plasmonic hot-electron photodetector with high detectivity and fast response. Nanophotonics, 2019, 8, 1247-1254.	2.9	44
9	Raman Scattering in Nanocomposite Photonic Crystals. Inorganic Materials, 2019, 55, 355-364.	0.2	8
10	Angular Dependences of Transmission Spectra of Photonic-Crystal Films Based on Aluminum Oxide. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 602-604.	0.2	2
11	LaF3: Pr3+ hollow hexagon nanostructures via green and eco-friendly synthesis and their photoluminescence properties. Journal of Materials Science, 2019, 54, 2897-2907.	1.7	7
12	Eu2+-Activated Green-Emitting Phosphor Obtained from Eu3+ Ions doping Zeolite-3A in Air Surroundings and Its Efficient Green Light-Emitting Diodes. Nanoscale Research Letters, 2019, 14, 298.	3.1	6
13	Sub-100 nm Channel ZnSe Film/Graphene Hybrid-Based Photodetectors With an Ultrahigh Responsivity of 10⁹A/W. IEEE Electron Device Letters, 2018, 39, 240-243.	2.2	8
14	Transmission Spectra and Optical Properties of a Mesoporous Photonic Crystal Based on Anodic Aluminum Oxide. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 167-173.	0.2	13
15	Tunable broadband wavelength-selective enhancement of responsivity in ordered Au-nanorod array-modified PbS photodetectors. Journal of Materials Chemistry C, 2018, 6, 1767-1773.	2.7	20
16	Preparation and enhanced infrared response properties of ordered W-doped VO2 nanowire array. Applied Surface Science, 2018, 436, 1061-1066.	3.1	19
17	Preparation of Hollow Polyaniline Micro/Nanospheres and Their Removal Capacity of Cr (VI) from Wastewater. Nanoscale Research Letters, 2018, 13, 401.	3.1	15
18	Transistors: All-Optical-Input Transistors: Light-Controlled Enhancement of Plasmon-Induced Photocurrent (Adv. Funct. Mater. 40/2018). Advanced Functional Materials, 2018, 28, 1870290.	7.8	0

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19	Allâ€Opticalâ€Input Transistors: Lightâ€Controlled Enhancement of Plasmonâ€Induced Photocurrent. Advanced Functional Materials, 2018, 28, 1802288.	7.8	17
20	Preparation of large scale and highly ordered vanadium pentoxide (V2O5) nanowire arrays towards high performance photodetectors. Journal of Materials Chemistry C, 2017, 5, 1471-1478.	2.7	31
21	Spectroscopy of photonic band gaps in mesoporous one-dimensional photonic crystals based on aluminum oxide. EPJ Web of Conferences, 2017, 132, 03054.	0.1	1
22	Plasmonic Resonators: Hybrid Plasmonic Cavity Modes in Arrays of Gold Nanotubes (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	1
23	Metal-semiconductor-metal infrared photodetector based on PbTe nanowires with fast response and recovery time. Applied Surface Science, 2017, 404, 7-11.	3.1	23
24	Flexible strain sensor with high performance based on PANI/PDMS films. Organic Electronics, 2017, 47, 51-56.	1.4	82
25	Controlled solvothermal synthesis of single-crystal tellurium nanowires, nanotubes and trifold structures and their photoelectrical properties. CrystEngComm, 2017, 19, 2813-2820.	1.3	22
26	Preparation and infrared response properties of vanadium dioxide nanowire/carbon nanotube composite film. Journal of Materials Science, 2017, 52, 7224-7231.	1.7	8
27	Necklace-like NiO-CuO Heterogeneous Composite Hollow Nanostructure: Preparation, Formation Mechanism and Structure Control. Scientific Reports, 2017, 7, 144.	1.6	9
28	Band-gap spectroscopy of mesoporous one-dimensional photonic-crystal alumina based films. Journal of Surface Investigation, 2017, 11, 246-253.	0.1	5
29	Hybrid Plasmonic Cavity Modes in Arrays of Gold Nanotubes. Advanced Optical Materials, 2017, 5, 1600731.	3.6	15
30	Optical properties of mesoporous photonic crystals, filled with dielectrics, ferroelectrics and piezoelectrics. Journal of Advanced Dielectrics, 2017, 07, 1750038.	1.5	7
31	Mesoporous anodic aluminum oxide photonic crystalline films and its applications. Journal of Physics: Conference Series, 2017, 918, 012020.	0.3	2
32	Multiple Plasmonic Resonances and Cascade Effect in Asymmetrical Ag Nanowire Homotrimer. Chinese Journal of Chemical Physics, 2016, 29, 489-496.	0.6	0
33	Wave Band Adjustable Infrared Filtering via Mott Transition of Nano Ti₂O₃. Advanced Engineering Materials, 2016, 18, 846-853.	1.6	3
34	Energyâ€Dose induced unidirectional light propagation in porous alumina photonic crystal. Annalen Der Physik, 2016, 528, 288-294.	0.9	12
35	Nitrogen-concentration modulated interfacial and electrical properties of sputtering-derived HfGdON gate dielectric. Journal of Applied Physics, 2016, 119, 214103.	1.1	7
36	Noble-metal Ag nanoparticle chains: annealing Ag/Bi superlattice nanowires in vacuum. Nanotechnology, 2016, 27, 375601.	1.3	2

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37	Te hexagonal nanotubes: formation and optical properties. Journal of Materials Science, 2016, 51, 7170-7178.	1.7	10
38	Solvothermal synthesis, stirring-assisted assembly and photoelectric performance of Te nanowires. Physical Chemistry Chemical Physics, 2016, 18, 32691-32696.	1.3	19
39	Near-field coupling and resonant cavity modes in plasmonic nanorod metamaterials. Nanotechnology, 2016, 27, 415708.	1.3	13
40	Size and dielectric-environment dependence of transversal resonance modes of localized surface plasmons in silver nanorods. Applied Optics, 2016, 55, 4871.	2.1	2
41	High- and Reproducible-Performance Graphene/II-VI Semiconductor Film Hybrid Photodetectors. Scientific Reports, 2016, 6, 28943.	1.6	29
42	Crackless transfer of large-area graphene films for superior-performance transparent electrodes. Carbon, 2016, 98, 457-462.	5.4	53
43	Influence of dielectrics with light absorption on the photonic bandgap of porous alumina photonic crystals. Nano Research, 2016, 9, 703-712.	5.8	13
44	Alternative radiative and dark mode-induced multi-broadband transmission in asymmetrical metallic grating. Journal of Optics (United Kingdom), 2016, 18, 015003.	1.0	0
45	Controllable fabrication of nickel nanoparticle chains based on electrochemical corrosion. Journal of Materials Chemistry C, 2015, 3, 2072-2079.	2.7	21
46	Temperature-Dependent Electrical Conductance of Bi Nanowires. Chinese Journal of Chemical Physics, 2015, 28, 79-83.	0.6	0
47	Experimental realization of tunable defect mode in photonic crystal. Journal Physics D: Applied Physics, 2015, 48, 435304.	1.3	14
48	Effects of rapid thermal annealing on interfacial and electrical properties of Gd-doped HfO2 high-k gate dielectrics. Journal of Alloys and Compounds, 2015, 646, 310-314.	2.8	21
49	SrS:Eu2+, Dy3+ nanostructures: Morphologies evolution and properties of afterglow. Journal of Alloys and Compounds, 2015, 639, 149-152.	2.8	9
50	LiTaO₃ microcubes: the layered structure and the increased Curie temperature. RSC Advances, 2015, 5, 31615-31621.	1.7	9
51	High density near amorphous InSb nanowire arrays and its photo-electric performance. Journal of Alloys and Compounds, 2015, 626, 35-41.	2.8	10
52	Cathodoluminescence and Photoconductive Characteristics of Singleâ€Crystal Ternary CdS/CdSe/CdS Biaxial Nanobelts. Small, 2015, 11, 1531-1536.	5.2	14
53	Generic Synthesis of TiO₂ Based Nanocables by Using the Through-Hole TiO₂ Nanotube Arrays as Template. Nanoscience and Nanotechnology Letters, 2014, 6, 493-496.	0.4	0
54	Ultrathin open-ended porous TiO2membranes for surface nanopatterning in fabricating nanodot arrays. Chemical Communications, 2014, 50, 14317-14320.	2.2	2

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55	Relaxation behavior study on PET and PET/Ti3N4nanocomposites. EPJ Applied Physics, 2014, 65, 30402.	0.3	1
56	Fano resonance in anodic aluminum oxide based photonic crystals. Scientific Reports, 2014, 4, 3601.	1.6	34
57	Large scale free-standing open-ended TiO2 nanotube arrays: stress-induced self-detachment and in situ pore opening. Journal of Materials Chemistry C, 2013, 1, 7498.	2.7	30
58	Preparation of the very uniform pore diameter of anodic alumina oxidation by voltage compensation mode. Materials Letters, 2013, 110, 156-159.	1.3	14
59	Preparation of narrow photonic bandgaps located in the near infrared region and their applications in ethanol gas sensing. Journal of Materials Chemistry C, 2013, 1, 5285.	2.7	49
60	Fabrication of one-dimensional alumina photonic crystals with a narrow band gap and their application to high-sensitivity sensors. Journal of Materials Chemistry C, 2013, 1, 1659.	2.7	51
61	Orientation-dependent growth rate of crystalline plane study in electrodeposited Ni/Cu superlattice nanowires. CrystEngComm, 2013, 15, 4070.	1.3	14
62	Facile Synthesis of 3D Porous Flower-like ZnO Micro/nanostructure Films and Their Photocatalytic Performance. Chinese Journal of Chemical Physics, 2012, 25, 339-344.	0.6	3
63	Anti-Counterfeiting of One-Dimensional Alumina Photonic Crystal by Creating Defects. Electrochemical and Solid-State Letters, 2012, 15, K23.	2.2	10
64	Optical properties of Ni and Cu nanowire arrays and Ni/Cu superlattice nanowire arrays. Nanoscale Research Letters, 2012, 7, 569.	3.1	11
65	Enhanced catalytic activity induced by defects in mesoporous ceria nanotubes. Journal of Materials Chemistry, 2012, 22, 6851.	6.7	52
66	High-Performance and Reproducible Polyaniline Nanowire/Tubes for Removal of Cr(VI) in Aqueous Solution. Journal of Physical Chemistry C, 2011, 115, 1608-1613.	1.5	150
67	Two-Step Synthesis of ZnO Rod-Needle Nanostructures Using a ZnS Source. Journal of Physical Chemistry C, 2011, 115, 13597-13602.	1.5	8
68	A facile and universal way to fabricate superlattice nanowire arrays. Nanotechnology, 2011, 22, 265602.	1.3	13
69	Visible-light-driven photocatalysts: (La/Biâ€‰+â€‰N)-codoped NaNbO3 by first principles. Journal of Applied Physics, 2011, 109, 063103.	1.1	26
70	Synthesis of polyaniline micro/nanospheres by a copper(ii)-catalyzed self-assembly method with superior adsorption capacity of organic dye from aqueous solution. Journal of Materials Chemistry, 2011, 21, 8618.	6.7	57
71	Anodic alumina photonic crystal heterostructures. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2931.	0.9	16
72	Controllable preparation of the ordered pore arrays anodic alumina with high-quality photonic band gaps. Materials Letters, 2011, 65, 2693-2695.	1.3	34

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73	Synthesis of urchin-like Co3O4 hierarchical micro/nanostructures and their photocatalytic activity. Applied Surface Science, 2011, 257, 6527-6530.	3.1	55
74	Size-dependent melting behavior of indium nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1746-1750.	0.9	17
75	Urchin-like Co3O4 Nanostructure and Their Electrochemical Behavior in Rechargeable Lithium Ion Battery. Chinese Journal of Chemical Physics, 2011, 24, 343-347.	0.6	3
76	Size-temperature phase diagram of gallium. Europhysics Letters, 2011, 94, 16001.	0.7	23
77	Selected Peer-Reviewed Articles from 6th International Conference on Materials Processing, Properties and Performance (MP3-2007). Journal of Nanoscience and Nanotechnology, 2010, 10, 5333-5334.	0.9	0
78	Fabrication and Optical Properties of Mesoporous SnO₂ Nanowire Arrays. Journal of Nanoscience and Nanotechnology, 2010, 10, 5471-5474.	0.9	4
79	Synthesis of ZnGa2O4 Hierarchical Nanostructure by Au Catalysts Induced Thermal Evaporation. Nanoscale Research Letters, 2010, 5, 1387-1392.	3.1	10
80	Porous-ZnO-Nanobelt Film as Recyclable Photocatalysts with Enhanced Photocatalytic Activity. Nanoscale Research Letters, 2010, 5, 1800-1803.	3.1	31
81	A convenient method to determine the bulk modulus of nanowires and its temperature dependence based on X-ray diffraction measurement. Solid State Communications, 2010, 150, 1117-1119.	0.9	5
82	An investigation of the electronic properties of MgO doped with group III, IV, and V elements: trends with varying dopant atomic number. Journal of Physics Condensed Matter, 2010, 22, 046002.	0.7	24
83	Fabrication of transmission phase gratings on porous anodic alumina. Optics Letters, 2010, 35, 727.	1.7	7
84	Distributed Bragg reflector made of anodic alumina membrane. Materials Letters, 2009, 63, 706-708.	1.3	41
85	Modulation of Transmission Spectra of Anodized Alumina Membrane Distributed Bragg Reflector by Controlling Anodization Temperature. Nanoscale Research Letters, 2009, 4, 665-7.	3.1	51
86	Synthesis of Tapered CdS Nanobelts and CdSe Nanowires with Good Optical Property by Hydrogen-Assisted Thermal Evaporation. Nanoscale Research Letters, 2009, 4, 1166-70.	3.1	21
87	Origin of Thermal Instability for ZnSe Nanowires and ZnSe/SiO₂Nanocables in Air. Journal of Physical Chemistry C, 2009, 113, 8730-8734.	1.5	8
88	In Situ X-ray Diffraction Study on the Orientation-Dependent Thermal Expansion of Cu Nanowires. Journal of Physical Chemistry C, 2009, 113, 9568-9572.	1.5	17
89	Enhanced separation of seven quinolones by capillary electrophoresis with silica nanoparticles as additive. Talanta, 2009, 77, 1667-1674.	2.9	47
90	The solid state phase transition of gallium particles and its size dependence. Journal of Physics Condensed Matter, 2009, 21, 245403.	0.7	14

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91	Density-Controlled Homoepitaxial Growth of ZnS Nanowire Arrays. Journal of Physical Chemistry C, 2009, 113, 4335-4339.	1.5	27
92	Preparation of Free-standing Bamboo-like Ni Nanowire Arrays. Chemistry Letters, 2009, 38, 394-395.	0.7	2
93	Controllable Fabrication of Multibranched TiO2 Nanotubes via a Two-step Anodization Method. Chemistry Letters, 2009, 38, 288-289.	0.7	13
94	Simultaneous separation of eight Î²â€adrenergic drugs using titanium dioxide nanoparticles as additive in capillary electrophoresis. Electrophoresis, 2008, 29, 2321-2329.	1.3	31
95	Dynamic mechanical analyzer study on surface melting of indium nanoparticles. Solid State Communications, 2008, 148, 374-377.	0.9	4
96	In situ X-ray diffraction study on the interatomic force of Ni nanowires. Solid State Sciences, 2008, 10, 1185-1188.	1.5	3
97	Controlled Growth and Phase Transition of Silver Nanowires with Dense Lengthwise Twins and Stacking Faults. Crystal Growth and Design, 2008, 8, 3073-3076.	1.4	35
98	The fabrication and thermal expansion properties of 4H-Ag nanowire arrays in porous anodic alumina templates. Nanotechnology, 2008, 19, 285711.	1.3	15
99	Response to â€œComment on â€˜Size-dependent melting behavior of Zn nanowire arraysâ€™ [Appl. Phys. Lett. 91, 196101 (2007)]â€• Applied Physics Letters, 2007, 91, .	1.5	3
100	Preparation of photonic crystals made of air pores in anodic alumina. Nanotechnology, 2007, 18, 365601.	1.3	129
101	Orientation-Controllable Growth of Ni Nanowire Arrays with Different Diameters. Electrochemical and Solid-State Letters, 2007, 10, E1.	2.2	17
102	Structural control and magnetic properties of electrodeposited Co nanowires. Journal of Crystal Growth, 2007, 300, 421-425.	0.7	30
103	Synthetic control of large-area, ordered silver nanowires with different diameters. Materials Letters, 2007, 61, 19-22.	1.3	32
104	Chemical synthesis and magnetic properties of nanocrystalline (La0.67â^'X Gd X)Sr0.33MnO3 using amorphous molecular alloy as precursors. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 183-186.	0.4	2
105	Internal friction associated with the melting of Pb nanoparticles in an Al matrix. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 150-153.	0.9	5
106	Melting behavior of confined Ga particles studied by internal friction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 107-111.	0.9	9
107	In situ x-ray diffraction study of the size dependent thermal expansion of silver nanowires. Applied Physics Letters, 2006, 89, 181914.	1.5	18
108	Size-dependent melting behavior of Zn nanowire arrays. Applied Physics Letters, 2006, 88, 173114.	1.5	78

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109	Influence of defects on the ordering degree of nanopores made from anodic aluminum oxide. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 392-395.	0.9	17
110	Structural stability of Co nanowire arrays embedded in the PAAM. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 220-222.	0.9	23
111	A facile approach to the formation of the alumina nanostructures from anodic alumina membranes. Materials Letters, 2006, 60, 2331-2334.	1.3	22
112	In situ x-ray diffraction study of the thermal expansion of the ordered arrays of silver nanowires embedded in anodic alumina membranes. Applied Physics Letters, 2006, 88, 211902.	1.5	21
113	Relation between size and phase structure of gallium: Differential scanning calorimeter experiments. Physical Review B, 2005, 72, .	1.1	36
114	Size-Dependent Orientation Growth of Large-Area Ordered Ni Nanowire Arrays. Journal of Physical Chemistry B, 2005, 109, 24326-24330.	1.2	72
115	Controlled synthesis and characterization of large-scale, uniform Dy(OH)3and Dy2O3single-crystal nanorods by a hydrothermal method. Nanotechnology, 2004, 15, 1307-1311.	1.3	58
116	Variation in internal friction and ultrasonic attenuation in aluminium during the early stage of fatigue loading. Journal of Alloys and Compounds, 1994, 211-212, 93-95.	2.8	8
117	Single-Phase Organicâ€“Inorganic Hybrid Nanoparticles for Warm-White Lighting. ACS Applied Nano Materials, 0, , .	2.4	3