Zhengwei Pan

List of Publications by Year
in descending order

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113 papers	19,047 citations	34105 52 h-index	24258 110 g-index
115 all docs	115 docs citations	115 times ranked	16824 citing authors

#	Article	IF	Citations
1	Nanobelts of Semiconducting Oxides. Science, 2001, 291, 1947-1949.	12.6	5,624
2	Stable and highly sensitive gas sensors based on semiconducting oxide nanobelts. Applied Physics Letters, 2002, 81, 1869-1871.	3.3	1,400
3	Sunlight-activated long-persistent luminescence in the near-infrared from Cr3+-doped zinc gallogermanates. Nature Materials, 2012, 11, 58-63.	27.5	1,109
4	Novel Nanostructures of Functional Oxides Synthesized by Thermal Evaporation. Advanced Functional Materials, 2003, 13, 9-24.	14.9	1,102
5	Field-Effect Transistors Based on Single Semiconducting Oxide Nanobelts. Journal of Physical Chemistry B, 2003, 107, 659-663.	2.6	1,049
6	Photostimulated near-infrared persistent luminescence as a new optical read-out from Cr3+-doped LiGa5O8. Scientific Reports, 2013, 3, 1554.	3.3	388
7	Mechanical and physical properties on carbon nanotube. Journal of Physics and Chemistry of Solids, 2000, 61, 1153-1158.	4.0	386
8	New yellow Ba0.93Eu0.07Al2O4 phosphor for warm-white light-emitting diodes through single-emitting-center conversion. Light: Science and Applications, 2013, 2, e50-e50.	16.6	355
9	Molten Gallium as a Catalyst for the Large-Scale Growth of Highly Aligned Silica Nanowires. Journal of the American Chemical Society, 2002, 124, 1817-1822.	13.7	351
10	Growth and Structure Evolution of Novel Tin Oxide Diskettes. Journal of the American Chemical Society, 2002, 124, 8673-8680.	13.7	325
11	Nanoscintillator-Mediated X-ray Inducible Photodynamic Therapy for In Vivo Cancer Treatment. Nano Letters, 2015, 15, 2249-2256.	9.1	312
12	Gallium Oxide Nanoribbons and Nanosheets. Journal of Physical Chemistry B, 2002, 106, 902-904.	2.6	260
13	Work function at the tips of multiwalled carbon nanotubes. Applied Physics Letters, 2001, 78, 1757-1759.	3.3	228
14	Tumor Vasculature Targeted Photodynamic Therapy for Enhanced Delivery of Nanoparticles. ACS Nano, 2014, 8, 6004-6013.	14.6	218
15	Ultra-long single crystalline nanoribbons of tin oxide. Solid State Communications, 2001, 118, 351-354.	1.9	217
16	Tensile tests of ropes of very long aligned multiwall carbon nanotubes. Applied Physics Letters, 1999, 74, 3152-3154.	3.3	213
17	Ultrastable Au Nanocatalyst Supported on Surface-Modified TiO2Nanocrystals. Journal of the American Chemical Society, 2005, 127, 10480-10481.	13.7	202
18	Junctions and Networks of SnO Nanoribbons. Advanced Materials, 2002, 14, 1029.	21.0	191

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19	New function of the Yb3+ ion as an efficient emitter of persistent luminescence in the short-wave infrared. Light: Science and Applications, 2016, 5, e16124-e16124.	16.6	185
20	Temperature-Controlled Growth of Silicon-Based Nanostructures by Thermal Evaporation of SiO Powders. Journal of Physical Chemistry B, 2001, 105, 2507-2514.	2.6	182
21	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. Nano Letters, 2005, 5, 2528-2532.	9.1	176
22	Detection of Up-converted Persistent Luminescence in the Near Infrared Emitted by the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Zn</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow> Physical Review Letters, 2014, 113, 177401.	7.8	166
23	Lead oxide nanobelts and phase transformation induced by electron beam irradiation. Applied Physics Letters, 2002, 80, 309-311.	3.3	164
24	Direct growth of aligned open carbon nanotubes by chemical vapor deposition. Chemical Physics Letters, 1999, 299, 97-102.	2.6	159
25	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. Applied Physics Letters, 2006, 89, 223110.	3.3	157
26	Ionothermal Synthesis of Hierarchical ZnO Nanostructures from Ionic-Liquid Precursors. Chemistry of Materials, 2006, 18, 4473-4477.	6.7	149
27	Third-order optical nonlinearity of the carbon nanotubes. Applied Physics Letters, 1999, 74, 164-166.	3.3	147
28	Low-temperature CO oxidation on Au/fumed SiO2-based catalysts prepared from Au(en)2Cl3 precursor. Applied Catalysis A: General, 2007, 326, 89-99.	4.3	145
29	Mechanical and electrostatic properties of carbon nanotubes and nanowires. Materials Science and Engineering C, 2001, 16, 3-10.	7.3	125
30	Lanthanide-doped GdVO4 upconversion nanophosphors with tunable emissions and their applications for biomedical imaging. Journal of Materials Chemistry, 2012, 22, 6974.	6.7	124
31	Temperature Dependence of Morphologies of Aligned Silicon Oxide Nanowire Assemblies Catalyzed by Molten Gallium. Nano Letters, 2003, 3, 1279-1284.	9.1	122
32	Temperature Dependence of Si Nanowire Morphology. Advanced Materials, 2001, 13, 317-320.	21.0	113
33	Near infrared long-persistent phosphorescence in La_3Ga_5GeO_14:Cr^3+ phosphor. Optics Express, 2010, 18, 20215.	3.4	110
34	Aligned ZnO Nanorod Arrays Grown Directly on Zinc Foils and Zinc Spheres by a Low-Temperature Oxidization Method. ACS Nano, 2009, 3, 273-278.	14.6	108
35	Photostimulable Near-Infrared Persistent Luminescent Nanoprobes for Ultrasensitive and Longitudinal Deep-Tissue Bio-Imaging. Theranostics, 2014, 4, 1112-1122.	10.0	104
36	Nanowire Array Gratings with ZnO Combs. Nano Letters, 2005, 5, 723-727.	9.1	103

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37	Ultrastable Gold Nanocatalyst Supported by Nanosized Non-Oxide Substrate. Angewandte Chemie - International Edition, 2006, 45, 3614-3618.	13.8	103
38	Nano-Scale Mechanics of Nanotubes, Nanowires, and Nanobelts. Advanced Engineering Materials, 2001, 3, 657.	3.5	98
39	Solar-blind ultraviolet-C persistent luminescence phosphors. Nature Communications, 2020, 11, 2040.	12.8	92
40	Near infrared long-persistent phosphorescence in SrAl2O4:Eu2+,Dy3+,Er3+ phosphors based on persistent energy transfer. Applied Physics Letters, 2009, 95, .	3.3	85
41	Label-Free Luminescent Mesoporous Silica Nanoparticles for Imaging and Drug Delivery. Theranostics, 2013, 3, 650-657.	10.0	85
42	Divalent Nickelâ€Activated Gallateâ€Based Persistent Phosphors in the Shortâ€Wave Infrared. Advanced Optical Materials, 2016, 4, 562-566.	7.3	78
43	Electrical Properties of Tin Dioxide Two-Dimensional Nanostructures. Journal of Physical Chemistry B, 2004, 108, 1882-1887.	2.6	74
44	Iron oxide nanoparticle encapsulated diatoms for magnetic delivery of small molecules to tumors. Nanoscale, 2014, 6, 2073.	5.6	70
45	Red, Green, and Blue Luminescence from ZnGa₂O₄ Nanowire Arrays. Journal of Physical Chemistry Letters, 2010, 1, 354-357.	4.6	69
46	Aligned carbon nanotube-reinforced silicon carbide composites produced by chemical vapor infiltration. Carbon, 2011, 49, 2475-2482.	10.3	63
47	Nitrogen adsorption characterization of aligned multiwalled carbon nanotubes and their acid modification. Journal of Colloid and Interface Science, 2004, 277, 35-42.	9.4	60
48	Long-lasting near-infrared persistent luminescence from Î²-Ga2O3:Cr3+ nanowire assemblies. Journal of Luminescence, 2011, 131, 2784-2787.	3.1	60
49	Spontaneous Growth of ZnCO₃ Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. Chemistry of Materials, 2010, 22, 149-154.	6.7	58
50	Long persistent luminescence in the ultraviolet in Pb²⁺-doped Sr₂MgGe₂O₇persistent phosphor. Dalton Transactions, 2016, 45, 1322-1326.	3.3	56
51	Quintuple-mode dynamic anti-counterfeiting using multi-mode persistent phosphors. Journal of Materials Chemistry C, 2021, 9, 16634-16644.	5.5	55
52	Growth of straight nanotubes with a cobaltâ€“nickel catalyst by chemical vapor deposition. Applied Physics Letters, 1999, 74, 644-646.	3.3	54
53	Very Low-Field Emission from Aligned and Opened Carbon Nanotube Arrays. Journal of Physical Chemistry B, 2001, 105, 1519-1522.	2.6	54
54	Extending the applications for lanthanide ions: efficient emitters in short-wave infrared persistent luminescence. Journal of Materials Chemistry C, 2017, 5, 6488-6492.	5.5	50

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55	Carbon nanotube arrays. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 11-15.	5.6	49
56	Nanostructured Zeolitic Imidazolate Frameworks Derived from Nanosized Zinc Oxide Precursors. Crystal Growth and Design, 2013, 13, 1002-1005.	3.0	49
57	A convenient method for synthesis of glyconanoparticles for colorimetric measuring carbohydrateâ€“protein interactions. Biochemical and Biophysical Research Communications, 2009, 389, 22-27.	2.1	48
58	Red/near-infrared/short-wave infrared multi-band persistent luminescence in Pr³⁺-doped persistent phosphors. Dalton Transactions, 2017, 46, 11149-11153.	3.3	47
59	A new up-conversion charging concept for effectively charging persistent phosphors using low-energy visible-light laser diodes. Journal of Materials Chemistry C, 2018, 6, 8003-8010.	5.5	46
60	Phonon-assisted upconversion charging in Zn_3Ga_2GeO_8:Cr^3+ near-infrared persistent phosphor. Optics Letters, 2016, 41, 954.	3.3	45
61	Growth of carbon nanotubes on cobalt disilicide precipitates by chemical vapor deposition. Applied Physics Letters, 1998, 72, 3297-3299.	3.3	44
62	Graphitized hollow carbon spheres and yolk-structured carbon spheres fabricated by metal-catalyst-free chemical vapor deposition. Carbon, 2016, 101, 57-61.	10.3	44
63	Synthesis of Ordered Mixed Titania and Silica Mesostructured Monoliths for Gold Catalysts. Journal of Physical Chemistry B, 2004, 108, 20038-20044.	2.6	42
64	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. Applied Physics Letters, 2005, 86, 253105.	3.3	38
65	Gallium-mediated growth of multiwall carbon nanotubes. Applied Physics Letters, 2003, 82, 1947-1949.	3.3	37
66	Liquid gallium ball/crystalline silicon polyhedrons/aligned silicon oxide nanowires sandwich structure: An interesting nanowire growth route. Applied Physics Letters, 2003, 83, 3159-3161.	3.3	36
67	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. Advanced Materials, 2009, 21, 890-896.	21.0	33
68	Hydrogen Passivation Induced Dispersion of Multiâ€Walled Carbon Nanotubes. Advanced Materials, 2012, 24, 881-885.	21.0	31
69	Three-Dimensional Germanium Oxide Nanowire Networks. Crystal Growth and Design, 2009, 9, 35-39.	3.0	29
70	Gd³⁺-activated narrowband ultraviolet-B persistent luminescence through persistent energy transfer. Dalton Transactions, 2021, 50, 3499-3505.	3.3	29
71	Synthesis of silicon nanowires using AuPd nanoparticles catalyst on silicon substrate. Journal of Physics and Chemistry of Solids, 2000, 61, 1171-1174.	4.0	28
72	Structures of Oxide Nanobelts and Nanowires. Microscopy and Microanalysis, 2002, 8, 467-474.	0.4	28

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73	Facile one-pot synthesis of gold nanoparticles stabilized with bifunctional amino/siloxy ligands. Journal of Colloid and Interface Science, 2005, 287, 360-365.	9.4	28
74	Vapor-Phase Synthesis of Gallium Phosphide Nanowires. Crystal Growth and Design, 2009, 9, 525-527.	3.0	28
75	F, Ca co-doped TiO₂nanocrystals with enhanced photocatalytic activity. Dalton Transactions, 2014, 43, 16160-16163.	3.3	28
76	Patterned Growth of Vertically Aligned Carbon Nanotubes on Pre-patterned Iron/Silica Substrates Prepared by Solâ^'Gel and Shadow Masking. Journal of Physical Chemistry B, 2003, 107, 1338-1344.	2.6	27
77	Self-Assembly of Graphene on Carbon Nanotube Surfaces. Scientific Reports, 2013, 3, 2353.	3.3	27
78	Ultra-sensitive in-situ detection of near-infrared persistent luminescent tracer nanoagents in crude oil-water mixtures. Scientific Reports, 2016, 6, 27993.	3.3	27
79	Ultraviolet-C persistent luminescence from the Lu₂SiO₅:Pr³⁺ persistent phosphor for solar-blind optical tagging. Dalton Transactions, 2021, 50, 8457-8466.	3.3	26
80	Polychromatic X-ray micro- and nanodiffraction for spatially-resolved structural studies. Thin Solid Films, 2008, 516, 8013-8021.	1.8	24
81	Luminescent Zn2GeO4 nanorod arrays and nanowires. Physical Chemistry Chemical Physics, 2013, 15, 7488.	2.8	24
82	Tomonaga-Luttinger Liquid and Coulomb Blockade in Multiwall Carbon Nanotubes under Pressure. Physical Review Letters, 2006, 97, 176401.	7.8	23
83	Germanium-catalyzed hierarchical Al2O3 and SiO2 nanowire bunch arrays. Nanoscale, 2009, 1, 347.	5.6	23
84	Single-Crystal Organic Nanowires of Copper-Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. Angewandte Chemie, 2007, 119, 2704-2708.	2.0	22
85	X-ray micromodulated luminescence tomography in dual-cone geometry. Journal of Biomedical Optics, 2014, 19, 076002.	2.6	22
86	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. Applied Physics Letters, 2005, 87, 173106.	3.3	20
87	Electronically transparent graphene replicas of diatoms: a new technique for the investigation of frustule morphology. Scientific Reports, 2014, 4, 6117.	3.3	19
88	Luminescent GeO2â€“Zn2GeO4 hybrid one dimensional nanostructures. CrystEngComm, 2013, 15, 2904.	2.6	18
89	NANOBELTS OF SEMICONDUCTIVE OXIDES: A STRUCTURALLY AND MORPHOLOGICALLY CONTROLLED NANOMATERIALS SYSTEM. International Journal of Nanoscience, 2002, 01, 41-51.	0.7	16
90	Straight single-crystalline germanium nanowires and their patterns grown on solâ€“gel prepared gold/silica substrates. Solid State Communications, 2005, 134, 251-255.	1.9	16

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91	Generation of nitrogen acceptors in ZnO using pulse thermal processing. Applied Physics Letters, 2008, 92, 151112.	3.3	16
92	Approaching Carbon Nanotube Reinforcing Limit in B₄<scp>C</scp> Matrix Composites Produced by Chemical Vapor Infiltration. Advanced Engineering Materials, 2014, 16, 161-166.	3.5	16
93	Preparation of monodispersed multi-walled carbon nanotubes in chemical vapor deposition. Chemical Physics Letters, 2002, 356, 563-566.	2.6	15
94	Fibrinogen Clot Induced by Gold-Nanoparticle In Vitro. Journal of Nanoscience and Nanotechnology, 2011, 11, 74-81.	0.9	15
95	New localized/delocalized emitting state of Eu2+ in orange-emitting hexagonal EuAl2O4. Scientific Reports, 2014, 4, 7101.	3.3	15
96	Red/NIR/SWIR multi-band persistent probe chargeable by general lighting sources for long-term, high-contrast visible/NIR-I/NIR-II multi-window bioimaging. Chemical Engineering Journal, 2022, 446, 137473.	12.7	15
97	Synthesis of ultrahigh-density ordered arrays of metallic nickel nanowires in mesoporous silica films. Chemical Communications, 2003, , 2584.	4.1	13
98	New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics. Advanced Functional Materials, 2013, 23, 1998-2006.	14.9	13
99	Linear conductance of multiwalled carbon nanotubes at high temperatures. Solid State Communications, 2004, 129, 407-410.	1.9	12
100	Combined Apertureless Near-Field Optical Second-Harmonic Generation/Atomic Force Microscopy Imaging and Nanoscale Limit of Detection. Applied Spectroscopy, 2010, 64, 1-7.	2.2	11
101	Laser synthesis and crystallization of nanocomposite Si/C/N powder. Journal of Materials Research, 1998, 13, 1996-2002.	2.6	9
102	Effects of temperature oscillations on the growth of carbon nanotubes by chemical vapor deposition. Applied Physics Letters, 2000, 76, 828-830.	3.3	7
103	Crystal structures and optical properties of new quaternary strontium europium aluminate luminescent nanoribbons. Journal of Materials Chemistry C, 2015, 3, 778-788.	5.5	7
104	The unconventional electronic properties of multiwall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 214-215.	2.7	6
105	Hierarchically ordered carbon tubes. Chemical Physics Letters, 2003, 371, 433-437.	2.6	5
106	Raman Studies of Semiconducting Oxide Nanobelts. Journal of Nanoscience and Nanotechnology, 2002, 2, 499-502.	0.9	4
107	Effect of primary particle size on colloidal stability of multiwall carbon nanotubes. Water Science and Technology, 2013, 68, 2249-2256.	2.5	2
108	Effects of Carbon, Nickel, and Molybdenum on the High Temperature Strength of Fe–Cr–Ni Alloys. Materials Transactions, JIM, 1996, 37, 138-141.	0.9	1

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109	Carbon Nanotubes: Hydrogen Passivation Induced Dispersion of Multi-Walled Carbon Nanotubes (Adv.) Tj ETQq1 1 0.784314 rgBT /O	21.0	1
110	Preparation of very long and open aligned carbon nanotubes. Science in China Series A: Mathematics, 2000, 43, 210-216.	0.5	0
111	A Dual-RF-Plasma Approach for Controlling the Graphitic Order and Diameters of Vertically-Aligned Multiwall Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2004, 858, 170.	0.1	0
112	Gallium-catalyzed silicon oxide nanowire growth. Tsinghua Science and Technology, 2005, 10, 718-728.	6.1	0
113	Luminescent Nanoribbons: New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics (Adv. Funct. Mater. 16/2013). Advanced Functional Materials, 2013, 23, 1978-1978.	14.9	0