

Zhengwei Pan

List of Publications by Year in descending order

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113
papers

19,047
citations

41627

51
h-index

27587

110
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115
all docs

115
docs citations

115
times ranked

19277
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Chemical Engineering Journal</i> , 2022, 446, 137473.	6.6	15
2	Gd ³⁺ -activated narrowband ultraviolet-B persistent luminescence through persistent energy transfer. <i>Dalton Transactions</i> , 2021, 50, 3499-3505.	1.6	29
3	Ultraviolet-C persistent luminescence from the Lu ₂ SiO ₅ :Pr ³⁺ persistent phosphor for solar-blind optical tagging. <i>Dalton Transactions</i> , 2021, 50, 8457-8466.	1.6	26
4	Quintuple-mode dynamic anti-counterfeiting using multi-mode persistent phosphors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16634-16644.	2.7	55
5	Solar-blind ultraviolet-C persistent luminescence phosphors. <i>Nature Communications</i> , 2020, 11, 2040.	5.8	92
6	A new up-conversion charging concept for effectively charging persistent phosphors using low-energy visible-light laser diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8003-8010.	2.7	46
7	Extending the applications for lanthanide ions: efficient emitters in short-wave infrared persistent luminescence. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6488-6492.	2.7	50
8	Red/near-infrared/short-wave infrared multi-band persistent luminescence in Pr ³⁺ -doped persistent phosphors. <i>Dalton Transactions</i> , 2017, 46, 11149-11153.	1.6	47
9	Divalent Nickel-Activated Gallate-Based Persistent Phosphors in the Short-Wave Infrared. <i>Advanced Optical Materials</i> , 2016, 4, 562-566.	3.6	78
10	New function of the Yb ³⁺ ion as an efficient emitter of persistent luminescence in the short-wave infrared. <i>Light: Science and Applications</i> , 2016, 5, e16124-e16124.	7.7	185
11	Ultra-sensitive in-situ detection of near-infrared persistent luminescent tracer nanoagents in crude oil-water mixtures. <i>Scientific Reports</i> , 2016, 6, 27993.	1.6	27
12	Graphitized hollow carbon spheres and yolk-structured carbon spheres fabricated by metal-catalyst-free chemical vapor deposition. <i>Carbon</i> , 2016, 101, 57-61.	5.4	44
13	Long persistent luminescence in the ultraviolet in Pb ²⁺ -doped Sr ₂ MgGe ₂ O ₇ persistent phosphor. <i>Dalton Transactions</i> , 2016, 45, 1322-1326.	1.6	56
14	Phonon-assisted upconversion charging in Zn ₃ Ga ₂ GeO ₈ :Cr ³⁺ near-infrared persistent phosphor. <i>Optics Letters</i> , 2016, 41, 954.	1.7	45
15	Crystal structures and optical properties of new quaternary strontium europium aluminate luminescent nanoribbons. <i>Journal of Materials Chemistry C</i> , 2015, 3, 778-788.	2.7	7
16	Nanoscintillator-Mediated X-ray Inducible Photodynamic Therapy for In Vivo Cancer Treatment. <i>Nano Letters</i> , 2015, 15, 2249-2256.	4.5	312
17	Photostimulable Near-Infrared Persistent Luminescent Nanoprobes for Ultrasensitive and Longitudinal Deep-Tissue Bio-Imaging. <i>Theranostics</i> , 2014, 4, 1112-1122.	4.6	104
18	Approaching Carbon Nanotube Reinforcing Limit in B ₄ C Matrix Composites Produced by Chemical Vapor Infiltration. <i>Advanced Engineering Materials</i> , 2014, 16, 161-166.	1.6	16

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19	X-ray micromodulated luminescence tomography in dual-cone geometry. <i>Journal of Biomedical Optics</i> , 2014, 19, 076002.	1.4	22
20	Iron oxide nanoparticle encapsulated diatoms for magnetic delivery of small molecules to tumors. <i>Nanoscale</i> , 2014, 6, 2073.	2.8	70
21	Detection of Up-converted Persistent Luminescence in the Near Infrared Emitted by the Zn^{2+} doped ZnO Nanoribbons. <i>Physical Review Letters</i> , 2014, 113, 177401.	2.9	166
22	F, Ca co-doped TiO_2 nanocrystals with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2014, 43, 16160-16163.	1.6	28
23	Tumor Vasculature Targeted Photodynamic Therapy for Enhanced Delivery of Nanoparticles. <i>ACS Nano</i> , 2014, 8, 6004-6013.	7.3	218
24	New localized/delocalized emitting state of Eu^{2+} in orange-emitting hexagonal $EuAl_2O_4$. <i>Scientific Reports</i> , 2014, 4, 7101.	1.6	15
25	Electronically transparent graphene replicas of diatoms: a new technique for the investigation of frustule morphology. <i>Scientific Reports</i> , 2014, 4, 6117.	1.6	19
26	New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics. <i>Advanced Functional Materials</i> , 2013, 23, 1998-2006.	7.8	13
27	Luminescent GeO_2/Zn_2GeO_4 hybrid one dimensional nanostructures. <i>CrystEngComm</i> , 2013, 15, 2904.	1.3	18
28	Luminescent Zn_2GeO_4 nanorod arrays and nanowires. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7488.	1.3	24
29	Nanostructured Zeolitic Imidazolate Frameworks Derived from Nanosized Zinc Oxide Precursors. <i>Crystal Growth and Design</i> , 2013, 13, 1002-1005.	1.4	49
30	Photostimulated near-infrared persistent luminescence as a new optical read-out from Cr^{3+} -doped $LiGa_5O_8$. <i>Scientific Reports</i> , 2013, 3, 1554.	1.6	388
31	Self-Assembly of Graphene on Carbon Nanotube Surfaces. <i>Scientific Reports</i> , 2013, 3, 2353.	1.6	27
32	Label-Free Luminescent Mesoporous Silica Nanoparticles for Imaging and Drug Delivery. <i>Theranostics</i> , 2013, 3, 650-657.	4.6	85
33	Effect of primary particle size on colloidal stability of multiwall carbon nanotubes. <i>Water Science and Technology</i> , 2013, 68, 2249-2256.	1.2	2
34	New yellow $Ba_{0.93}Eu_{0.07}Al_2O_4$ phosphor for warm-white light-emitting diodes through single-emitting-center conversion. <i>Light: Science and Applications</i> , 2013, 2, e50-e50.	7.7	355
35	Luminescent Nanoribbons: New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics (<i>Adv. Funct. Mater.</i> 16/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1978-1978.	7.8	0
36	Lanthanide-doped $GdVO_4$ upconversion nanophosphors with tunable emissions and their applications for biomedical imaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 6974.	6.7	124

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37	Sunlight-activated long-persistent luminescence in the near-infrared from Cr ³⁺ -doped zinc gallogermanates. <i>Nature Materials</i> , 2012, 11, 58-63.	13.3	1,109
38	Hydrogen Passivation Induced Dispersion of Multi-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2012, 24, 881-885.	11.1	31
39	Carbon Nanotubes: Hydrogen Passivation Induced Dispersion of Multi-Walled Carbon Nanotubes (Adv.) <i>Tj ETQq1 1.0.784314 rgBT /O</i>	11.1	1
40	Fibrinogen Clot Induced by Gold-Nanoparticle <i>In Vitro</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 74-81.	0.9	15
41	Long-lasting near-infrared persistent luminescence from $\text{Ga}_2\text{O}_3:\text{Cr}^{3+}$ nanowire assemblies. <i>Journal of Luminescence</i> , 2011, 131, 2784-2787.	1.5	60
42	Aligned carbon nanotube-reinforced silicon carbide composites produced by chemical vapor infiltration. <i>Carbon</i> , 2011, 49, 2475-2482.	5.4	63
43	Spontaneous Growth of ZnCO ₃ Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. <i>Chemistry of Materials</i> , 2010, 22, 149-154.	3.2	58
44	Combined Apertureless Near-Field Optical Second-Harmonic Generation/Atomic Force Microscopy Imaging and Nanoscale Limit of Detection. <i>Applied Spectroscopy</i> , 2010, 64, 1-7.	1.2	11
45	Near infrared long-persistent phosphorescence in La ₃ Ga ₅ GeO ₁₄ :Cr ³⁺ phosphor. <i>Optics Express</i> , 2010, 18, 20215.	1.7	110
46	Red, Green, and Blue Luminescence from ZnGa ₂ O ₄ Nanowire Arrays. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 354-357.	2.1	69
47	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. <i>Advanced Materials</i> , 2009, 21, 890-896.	11.1	33
48	Three-Dimensional Germanium Oxide Nanowire Networks. <i>Crystal Growth and Design</i> , 2009, 9, 35-39.	1.4	29
49	Vapor-Phase Synthesis of Gallium Phosphide Nanowires. <i>Crystal Growth and Design</i> , 2009, 9, 525-527.	1.4	28
50	A convenient method for synthesis of glyconanoparticles for colorimetric measuring carbohydrate-protein interactions. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 22-27.	1.0	48
51	Aligned ZnO Nanorod Arrays Grown Directly on Zinc Foils and Zinc Spheres by a Low-Temperature Oxidization Method. <i>ACS Nano</i> , 2009, 3, 273-278.	7.3	108
52	Germanium-catalyzed hierarchical Al ₂ O ₃ and SiO ₂ nanowire bunch arrays. <i>Nanoscale</i> , 2009, 1, 347.	2.8	23
53	Near infrared long-persistent phosphorescence in SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ ,Er ³⁺ phosphors based on persistent energy transfer. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	85
54	Polychromatic X-ray micro- and nanodiffraction for spatially-resolved structural studies. <i>Thin Solid Films</i> , 2008, 516, 8013-8021.	0.8	24

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55	Generation of nitrogen acceptors in ZnO using pulse thermal processing. <i>Applied Physics Letters</i> , 2008, 92, 151112.	1.5	16
56	Single-Crystal Organic Nanowires of Copper-Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. <i>Angewandte Chemie</i> , 2007, 119, 2704-2708.	1.6	22
57	Low-temperature CO oxidation on Au/fumed SiO ₂ -based catalysts prepared from Au(en)2Cl ₃ precursor. <i>Applied Catalysis A: General</i> , 2007, 326, 89-99.	2.2	145
58	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. <i>Applied Physics Letters</i> , 2006, 89, 223110.	1.5	157
59	Ionothermal Synthesis of Hierarchical ZnO Nanostructures from Ionic-Liquid Precursors. <i>Chemistry of Materials</i> , 2006, 18, 4473-4477.	3.2	149
60	Ultrastable Gold Nanocatalyst Supported by Nanosized Non-Oxide Substrate. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3614-3618.	7.2	103
61	Tomonaga-Luttinger Liquid and Coulomb Blockade in Multiwall Carbon Nanotubes under Pressure. <i>Physical Review Letters</i> , 2006, 97, 176401.	2.9	23
62	Facile one-pot synthesis of gold nanoparticles stabilized with bifunctional amino/siloxy ligands. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 360-365.	5.0	28
63	Straight single-crystalline germanium nanowires and their patterns grown on sol-gel prepared gold/silica substrates. <i>Solid State Communications</i> , 2005, 134, 251-255.	0.9	16
64	Gallium-catalyzed silicon oxide nanowire growth. <i>Tsinghua Science and Technology</i> , 2005, 10, 718-728.	4.1	0
65	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. <i>Applied Physics Letters</i> , 2005, 87, 173106.	1.5	20
66	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. <i>Applied Physics Letters</i> , 2005, 86, 253105.	1.5	38
67	Nanowire Array Gratings with ZnO Combs. <i>Nano Letters</i> , 2005, 5, 723-727.	4.5	103
68	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. <i>Nano Letters</i> , 2005, 5, 2528-2532.	4.5	176
69	Ultrastable Au Nanocatalyst Supported on Surface-Modified TiO ₂ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 10480-10481.	6.6	202
70	A Dual-RF-Plasma Approach for Controlling the Graphitic Order and Diameters of Vertically-Aligned Multiwall Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2004, 858, 170.	0.1	0
71	Nitrogen adsorption characterization of aligned multiwalled carbon nanotubes and their acid modification. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 35-42.	5.0	60
72	Linear conductance of multiwalled carbon nanotubes at high temperatures. <i>Solid State Communications</i> , 2004, 129, 407-410.	0.9	12

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73	Synthesis of Ordered Mixed Titania and Silica Mesostructured Monoliths for Gold Catalysts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20038-20044.	1.2	42
74	Electrical Properties of Tin Dioxide Two-Dimensional Nanostructures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1882-1887.	1.2	74
75	Novel Nanostructures of Functional Oxides Synthesized by Thermal Evaporation. <i>Advanced Functional Materials</i> , 2003, 13, 9-24.	7.8	1,102
76	Hierarchically ordered carbon tubes. <i>Chemical Physics Letters</i> , 2003, 371, 433-437.	1.2	5
77	The unconventional electronic properties of multiwall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 18, 214-215.	1.3	6
78	Temperature Dependence of Morphologies of Aligned Silicon Oxide Nanowire Assemblies Catalyzed by Molten Gallium. <i>Nano Letters</i> , 2003, 3, 1279-1284.	4.5	122
79	Field-Effect Transistors Based on Single Semiconducting Oxide Nanobelts. <i>Journal of Physical Chemistry B</i> , 2003, 107, 659-663.	1.2	1,049
80	Gallium-mediated growth of multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 82, 1947-1949.	1.5	37
81	Patterned Growth of Vertically Aligned Carbon Nanotubes on Pre-patterned Iron/Silica Substrates Prepared by Sol-gel and Shadow Masking. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1338-1344.	1.2	27
82	Synthesis of ultrahigh-density ordered arrays of metallic nickel nanowires in mesoporous silica films. <i>Chemical Communications</i> , 2003, , 2584.	2.2	13
83	Liquid gallium ball/crystalline silicon polyhedrons/aligned silicon oxide nanowires sandwich structure: An interesting nanowire growth route. <i>Applied Physics Letters</i> , 2003, 83, 3159-3161.	1.5	36
84	NANOBELTS OF SEMICONDUCTIVE OXIDES: A STRUCTURALLY AND MORPHOLOGICALLY CONTROLLED NANOMATERIALS SYSTEM. <i>International Journal of Nanoscience</i> , 2002, 01, 41-51.	0.4	16
85	Molten Gallium as a Catalyst for the Large-Scale Growth of Highly Aligned Silica Nanowires. <i>Journal of the American Chemical Society</i> , 2002, 124, 1817-1822.	6.6	351
86	Gallium Oxide Nanoribbons and Nanosheets. <i>Journal of Physical Chemistry B</i> , 2002, 106, 902-904.	1.2	260
87	Growth and Structure Evolution of Novel Tin Oxide Diskettes. <i>Journal of the American Chemical Society</i> , 2002, 124, 8673-8680.	6.6	325
88	Lead oxide nanobelts and phase transformation induced by electron beam irradiation. <i>Applied Physics Letters</i> , 2002, 80, 309-311.	1.5	164
89	Structures of Oxide Nanobelts and Nanowires. <i>Microscopy and Microanalysis</i> , 2002, 8, 467-474.	0.2	28
90	Stable and highly sensitive gas sensors based on semiconducting oxide nanobelts. <i>Applied Physics Letters</i> , 2002, 81, 1869-1871.	1.5	1,400

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91	Junctions and Networks of SnO Nanoribbons. <i>Advanced Materials</i> , 2002, 14, 1029.	11.1	191
92	Preparation of monodispersed multi-walled carbon nanotubes in chemical vapor deposition. <i>Chemical Physics Letters</i> , 2002, 356, 563-566.	1.2	15
93	Raman studies of semiconducting oxide nanobelts. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 499-502.	0.9	4
94	Work function at the tips of multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2001, 78, 1757-1759.	1.5	228
95	Very Low-Field Emission from Aligned and Opened Carbon Nanotube Arrays. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1519-1522.	1.2	54
96	Nanobelts of Semiconducting Oxides. <i>Science</i> , 2001, 291, 1947-1949.	6.0	5,624
97	Temperature-Controlled Growth of Silicon-Based Nanostructures by Thermal Evaporation of SiO Powders. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2507-2514.	1.2	182
98	Ultra-long single crystalline nanoribbons of tin oxide. <i>Solid State Communications</i> , 2001, 118, 351-354.	0.9	217
99	Mechanical and electrostatic properties of carbon nanotubes and nanowires. <i>Materials Science and Engineering C</i> , 2001, 16, 3-10.	3.8	125
100	Nano-Scale Mechanics of Nanotubes, Nanowires, and Nanobelts. <i>Advanced Engineering Materials</i> , 2001, 3, 657.	1.6	98
101	Temperature Dependence of Si Nanowire Morphology. <i>Advanced Materials</i> , 2001, 13, 317-320.	11.1	113
102	Synthesis of silicon nanowires using AuPd nanoparticles catalyst on silicon substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1171-1174.	1.9	28
103	Mechanical and physical properties on carbon nanotube. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1153-1158.	1.9	386
104	Carbon nanotube arrays. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 286, 11-15.	2.6	49
105	Preparation of very long and open aligned carbon nanotubes. <i>Science in China Series A: Mathematics</i> , 2000, 43, 210-216.	0.5	0
106	Effects of temperature oscillations on the growth of carbon nanotubes by chemical vapor deposition. <i>Applied Physics Letters</i> , 2000, 76, 828-830.	1.5	7
107	Tensile tests of ropes of very long aligned multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 1999, 74, 3152-3154.	1.5	213
108	Direct growth of aligned open carbon nanotubes by chemical vapor deposition. <i>Chemical Physics Letters</i> , 1999, 299, 97-102.	1.2	159

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109	Growth of straight nanotubes with a cobalt–nickel catalyst by chemical vapor deposition. Applied Physics Letters, 1999, 74, 644-646.	1.5	54
110	Third-order optical nonlinearity of the carbon nanotubes. Applied Physics Letters, 1999, 74, 164-166.	1.5	147
111	Laser synthesis and crystallization of nanocomposite Si/C/N powder. Journal of Materials Research, 1998, 13, 1996-2002.	1.2	9
112	Growth of carbon nanotubes on cobalt disilicide precipitates by chemical vapor deposition. Applied Physics Letters, 1998, 72, 3297-3299.	1.5	44
113	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