

# Naoki Fukata

## List of Publications by Year in descending order

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250  
papers

4,670  
citations

94269

37  
h-index

161609

54  
g-index

252  
all docs

252  
docs citations

252  
times ranked

5256  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced efficiency of silicon micro-pyramids/poly(3,4-ethylenedioxythiophene):polystyrene sulfonate/gold nanoparticles hybrid solar cells. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106226.	1.9	3
2	Defect control and Si/Ge core-shell heterojunction formation on silicon nanowire surfaces formed using the top-down method. <i>Nanotechnology</i> , 2022, 33, 135602.	1.3	3
3	Study of Structural and Optical Properties of Electrodeposited Silicon Films on Graphite Substrates. <i>Nanomaterials</i> , 2022, 12, 363.	1.9	7
4	Enhanced power conversion efficiency of an n-Si/PEDOT:PSS hybrid solar cell using nanostructured silicon and gold nanoparticles. <i>RSC Advances</i> , 2022, 12, 10514-10521.	1.7	12
5	Structural Conversion of Cu-Titanate into Photoactive Plasmonic Cu-TiO <sub>2</sub> for H <sub>2</sub> Generation in Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4143-4151.	3.2	13
6	Direct Detection of Free H <sub>2</sub> Outgassing in Blisters Formed in Al <sub>2</sub> O <sub>3</sub> Atomic Layers Deposited on Si and Methods of Its Prevention. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1472-1477.	4.0	2
7	ZnO/Ge core-shell nanowires and Ge nanotubes fabricated by chemical vapor deposition and wet etching. <i>Nanotechnology</i> , 2022, 33, 325602.	1.3	1
8	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. <i>Chemosphere</i> , 2022, 303, 134932.	4.2	32
9	Hole-injection role of solution-processed thermally treated VOx thin films in Si nanowire-based solar cells. <i>Nano Energy</i> , 2022, 99, 107373.	8.2	7
10	Photosensitizer Encryption with Aggregation Enhanced Singlet Oxygen Production. <i>Journal of the American Chemical Society</i> , 2022, 144, 10830-10843.	6.6	19
11	Formation of Free Hydrogen Gas By Annealing ALD-Al <sub>2</sub> O <sub>3</sub> /Si Stacked Structure. <i>ECS Transactions</i> , 2022, 108, 57-61.	0.3	0
12	Crystallization Of Tensile Strained n-Type Ge By Continuous Wave Laser Annealing. <i>ECS Transactions</i> , 2022, 108, 79-82.	0.3	0
13	Crystallization Of Tensile Strained n-Type Ge By Continuous Wave Laser Annealing. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1283-1283.	0.0	0
14	Formation of Free Hydrogen Gas By Annealing ALD-Al <sub>2</sub> O <sub>3</sub> /Si Stacked Structure. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1275-1275.	0.0	0
15	Nitrogen doping-mediated oxygen vacancies enhancing co-catalyst-free solar photocatalytic H <sub>2</sub> production activity in anatase TiO <sub>2</sub> nanosheet assembly. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119755.	10.8	86
16	Functionalized aluminum-catalyzed silicon nanowire formation and radial junction photovoltaic devices. <i>Nanoscale</i> , 2021, 13, 6798-6808.	2.8	5
17	Cancer antigen 125 assessment using carbon quantum dots for optical biosensing for the early diagnosis of ovarian cancer. <i>RSC Advances</i> , 2021, 11, 31047-31057.	1.7	15
18	High-capacity CVD-grown Ge nanowire anodes for lithium-ion batteries: simple chemical etching approach for oxide removal. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2103-2112.	1.1	2

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19	Efficiency enhancement of Si nanostructure hybrid solar cells by optimizing non-radiative energy transfer from Si quantum dots. <i>Nano Energy</i> , 2021, 82, 105728.	8.2	22
20	Self-organized direction growth of germanium film on insulator obtained by high speed continuous wave laser annealing. <i>Materials Letters</i> , 2021, 288, 129328.	1.3	9
21	Growth of High Sn Concentration Germanium-Tin Films on Insulators by Microsecond Laser Annealing. <i>ECS Transactions</i> , 2021, 102, 141-146.	0.3	0
22	Epitaxial Growth of Highly Sb-Doped Ge on p-Ge (100) for Vertical Transistor Applications. <i>ECS Transactions</i> , 2021, 102, 147-150.	0.3	1
23	Systematic optimization of triboelectric nanogenerator performance through surface micropatterning. <i>Nano Energy</i> , 2021, 83, 105856.	8.2	18
24	Advanced silver and gold substrates for surface-enhanced Raman spectroscopy of pesticides. <i>Spectroscopy Letters</i> , 2021, 54, 528-538.	0.5	1
25	Silicon nanowires covered with on-site fabricated nanowire-shape graphene for Schottky junction solar cells. <i>Solar Energy</i> , 2021, 224, 666-671.	2.9	6
26	Conversion of Amorphous Carbon on Silicon Nanostructures into Similar Shaped Semi-Crystalline Graphene Sheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4949-4954.	0.9	1
27	Influence of point defects on phase transformation and optical properties of TiO <sub>2</sub> thin films via multilayering deposition technique. <i>Materials Chemistry and Physics</i> , 2021, 272, 124859.	2.0	4
28	Energy management in hybrid organic-silicon nanostructured solar cells by downshifting using CdZnS/ZnS and CdZnSe/ZnS quantum dots. <i>Nano Energy</i> , 2021, 89, 106470.	8.2	16
29	In situ Blue titania via band shape engineering for exceptional solar H <sub>2</sub> production in rutile TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120380.	10.8	53
30	Growth of SiGe thin films with uniform and non-uniform Si concentration profiles on insulating substrates by high-speed continuous wave laser annealing. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 106024.	1.9	1
31	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48595-48610.	4.0	22
32	Dopant Redistribution in High-Temperature-Grown Sb-Doped Ge Epitaxial Films. <i>Crystal Growth and Design</i> , 2021, 21, 6523-6528.	1.4	2
33	Impurity Doping in Semiconductor Nanowires. , 2021, , 143-181.		2
34	Surface-Enhanced Raman Spectroscopy (SERS) of Neonicotinoid Insecticide Thiacloprid Assisted by Silver and Gold Nanostructures. <i>Applied Spectroscopy</i> , 2020, 74, 357-364.	1.2	10
35	Fe-induced layer exchange of multilayer graphene for rechargeable battery anodes. <i>Applied Physics Express</i> , 2020, 13, 025501.	1.1	6
36	Adjustable metal particle grid formed through upward directed solid-state dewetting using silicon nanowires. <i>Nanoscale Advances</i> , 2020, 2, 5607-5614.	2.2	3

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37	Ag and Au nanostructures for surface-enhanced Raman spectroscopy of Mospilan 20 SP (acetamiprid). Journal of Raman Spectroscopy, 2020, 51, 2398-2407.	1.2	8
38	Growth of Tensile Strained Poly Germanium Thin Film on Glass Substrates by High Speed Continuous Wave Laser Annealing, and its Application to Germanium-Tin. ECS Journal of Solid State Science and Technology, 2020, 9, 063002.	0.9	5
39	Downshifting of highly energetic photons and energy transfer by Mn-doped perovskite CsPbCl <sub>3</sub> nanocrystals in hybrid organic/silicon nanostructured solar cells. Nano Energy, 2020, 77, 105163.	8.2	30
40	Silicon Nanotubes Fabricated by Wet Chemical Etching of ZnO/Si Core-Shell Nanowires. Nanomaterials, 2020, 10, 2535.	1.9	8
41	Marimo-Bead-Supported Core-Shell Nanocomposites of Titanium Nitride and Chromium-Doped Titanium Dioxide as a Highly Efficient Water-Floatable Green Photocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 31327-31339.	4.0	24
42	Surface-enhanced Raman spectroscopy of neonicotinoid insecticide imidacloprid, assisted by gold and silver nanostructures. Spectroscopy Letters, 2020, 53, 184-193.	0.5	5
43	On-site growth method of 3D structured multi-layered graphene on silicon nanowires. Nanoscale Advances, 2020, 2, 1718-1725.	2.2	5
44	Nanomolecular singlet oxygen photosensitizers based on hemiquinonoid-resorcinarenes, the fuchsonarenes. Chemical Science, 2020, 11, 2614-2620.	3.7	7
45	2D Mesoporous Channels of PMO; a Platform for Cluster-Like Pt Synthesis and Catalytic Activity in Nitrophenol Reduction. Catalysts, 2020, 10, 167.	1.6	17
46	Interfacial intermixing of Ge/Si core-shell nanowires by thermal annealing. Nanoscale, 2020, 12, 7572-7576.	2.8	9
47	Solar Cell Based on Hybrid Structural SiNW/Poly(3,4 ethylenedioxythiophene): Poly(styrenesulfonate)/Graphene. Global Challenges, 2020, 4, 2000010.	1.8	17
48	Controlling Catalyst-Free Formation and Hole Gas Accumulation by Fabricating Si/Ge Core-Shell and Si/Ge/Si Core-Double Shell Nanowires. ACS Nano, 2019, 13, 13403-13412.	7.3	12
49	Nanoscale aluminum plasmonic waveguide with monolithically integrated germanium detector. Applied Physics Letters, 2019, 115, .	1.5	17
50	Au-Sn Catalyzed Growth of Ge <sub>1-x</sub> Sn <sub>x</sub> Nanowires: Growth Direction, Crystallinity, and Sn Incorporation. Nano Letters, 2019, 19, 6270-6277.	4.5	22
51	Hybrid organic and inorganic solar cell based on a cyanine dye and quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 166-174.	2.0	18
52	Cation Vacancy-Initiated CO <sub>2</sub> Photoreduction over ZnS for Efficient Formate Production. ACS Energy Letters, 2019, 4, 1387-1393.	8.8	102
53	Single grain growth of Si thin film on insulating substrate by limited region aluminum induced crystallization. Materials Letters, 2019, 252, 100-102.	1.3	8
54	Silicon nanowire-based solar cells. , 2019, , 325-348.		1

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55	Conversion of a 2D Lepidocrocite-Type Layered Titanate into Its 1D Nanowire Form with Enhancement of Cation Exchange and Photocatalytic Performance. <i>Inorganic Chemistry</i> , 2019, 58, 7989-7996.	1.9	41
56	Realization and direct observation of five normal and parametric modes in silicon nanowire resonators by <i>in situ</i> transmission electron microscopy. <i>Nanoscale Advances</i> , 2019, 1, 1784-1790.	2.2	4
57	Design of bio-inspired adhesive surface composed of hexanoyl group-modified gelatin and silicon nanowire. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 111-119.	2.5	7
58	Highly Air-Stable Solution-Processed and Low-Temperature Organic/Inorganic Nanostructure Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 2637-2644.	2.5	18
59	Three-dimensional radial junction solar cell based on ordered silicon nanowires. <i>Nanotechnology</i> , 2019, 30, 344001.	1.3	10
60	Multimodal switching of a redox-active macrocycle. <i>Nature Communications</i> , 2019, 10, 1007.	5.8	20
61	Template-oriented synthesis of hydroxyapatite nanoplates for 3D bone printing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7228-7234.	2.9	21
62	Sub-Micropillar Spacing Modulates the Spatial Arrangement of Mouse MC3T3-E1 Osteoblastic Cells. <i>Nanomaterials</i> , 2019, 9, 1701.	1.9	5
63	Photovoltaic Performance of Inorganic-Organic Heterojunction Solar Cells Using Boron-Doped Silicon Nanoparticles with Controlled Conductance. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2913-2924.	0.9	2
64	Surface-Enhanced Raman Spectroscopy (SERS) of Mancozeb and Thiamethoxam Assisted by Gold and Silver Nanostructures Produced by Laser Techniques on Paper. <i>Applied Spectroscopy</i> , 2019, 73, 313-319.	1.2	13
65	Fabrication of high-performance ordered radial junction silicon nanopencil solar cells by fine-tuning surface carrier recombination and structure morphology. <i>Nano Energy</i> , 2019, 56, 604-611.	8.2	13
66	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 1013-1020.	10.8	50
67	Efficiency enhancement of silicon nanowire solar cells by using UV/Ozone treatments and micro-grid electrodes. <i>Applied Surface Science</i> , 2018, 439, 1057-1064.	3.1	10
68	Si Nanowire Solar Cells: Principles, Device Types, Future Aspects, and Challenges. , 2018, , 299-329.		7
69	SERS analyses of thiamethoxam assisted by Ag films and nanostructures produced by laser techniques. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 397-403.	1.2	15
70	SERS analysis of Ag nanostructures produced by ion-beam deposition. <i>Journal of Physics: Conference Series</i> , 2018, 992, 012050.	0.3	2
71	Laser-induced surface modification of biopolymers – micro/nanostructuring and functionalization. <i>Journal of Physics: Conference Series</i> , 2018, 992, 012051.	0.3	2
72	Mechanical, Electrical, and Crystallographic Property Dynamics of Bent and Strained Ge/Si Core-Shell Nanowires As Revealed by <i>in situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2018, 18, 7238-7246.	4.5	18

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73	Development of high-resolution ERDA with double MCP system and determination of detection limit for H and D. Nuclear Instruments & Methods in Physics Research B, 2018, 430, 6-10.	0.6	2
74	Hole gas accumulation in Si/Ge core-shell and Si/Ge/Si core-double shell nanowires. Nanoscale, 2018, 10, 21062-21068.	2.8	15
75	Thermal conductivity of Si nanowires with $\delta$ -modulated dopant distribution by self-heated 3i% method and its length dependence. Journal of Applied Physics, 2018, 124, 065105.	1.1	8
76	Investigation of nanoscale voids in Sb-doped p-type ZnO nanowires. Nanotechnology, 2018, 29, 335204.	1.3	12
77	Control of grain size and crystallinity of poly-Si films on quartz by Al-induced crystallization. CrystEngComm, 2017, 19, 2305-2311.	1.3	23
78	Laser-assisted approach for synthesis of plasmonic Ag/ZnO nanostructures. Superlattices and Microstructures, 2017, 109, 886-896.	1.4	8
79	High-efficiency silicon hybrid solar cells employing nanocrystalline Si quantum dots and Si nanotips for energy management. Nano Energy, 2017, 35, 154-160.	8.2	49
80	Functionalization of Silicon Nanostructures for Energy-Related Applications. Small, 2017, 13, 1701713.	5.2	49
81	Energy Storage: Functionalization of Silicon Nanostructures for Energy-Related Applications (Small) Tj ETQq1 1 0,784314 rgBT /Ove	5.2	49
82	Novel Silicon Nanowire Electrodes Grown by Chemical Vapor Deposition Method for High-Performance Electrochemical Capacitors. Bulletin of the Korean Chemical Society, 2017, 38, 1047-1051.	1.0	0
83	Diffused back surface field formation in combination with two-step H <sub>2</sub> annealing for improvement of silicon nanowire-based solar cell efficiency. Japanese Journal of Applied Physics, 2017, 56, 04CP01.	0.8	14
84	Improved Separation and Collection of Charge Carriers in Micro-Pyramidal-Structured Silicon/PEDOT:PSS Hybrid Solar Cells. Energies, 2017, 10, 420.	1.6	11
85	Improvement of silicon nanowire solar cells made by metal catalyzed electroless etching and nano imprint lithography. Japanese Journal of Applied Physics, 2017, 56, 04CP03.	0.8	5
86	Pencil-shaped silicon nanowire synthesis and photovoltaic application. Japanese Journal of Applied Physics, 2017, 56, 085201.	0.8	12
87	Lithium ion battery anodes using Si-Fe based nanocomposite structures. Nano Energy, 2016, 26, 37-42.	8.2	62
88	Hot Electron Excitation from Titanium Nitride Using Visible Light. ACS Photonics, 2016, 3, 1552-1557.	3.2	98
89	Boron distributions in individual core-shell Ge/Si and Si/Ge heterostructured nanowires. Nanoscale, 2016, 8, 19811-19815.	2.8	11
90	Solution derived p-ZnO/n-Si nanowire heterojunctions for photodetection. Chemical Physics Letters, 2016, 658, 158-161.	1.2	20

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91	Metal-catalyzed electroless etching and nanoimprinting silicon nanowire-based solar cells: Silicon nanowire defect reduction and efficiency enhancement by two-step H <sub>2</sub> annealing. Japanese Journal of Applied Physics, 2016, 55, 065001.	0.8	15
92	Porous plasmonic nanocomposites for SERS substrates fabricated by two-step laser method. Journal of Alloys and Compounds, 2016, 665, 282-287.	2.8	26
93	Fs-laser processing of medical grade polydimethylsiloxane (PDMS). Applied Surface Science, 2016, 374, 229-234.	3.1	26
94	Optoelectronic Properties of Solution Grown ZnO n-p or p-n Core-Shell Nanowire Arrays. ACS Applied Materials & Interfaces, 2016, 8, 4287-4291.	4.0	42
95	Defects and luminescence control of AlN ceramic by Si-doping. Scripta Materialia, 2016, 110, 109-112.	2.6	12
96	Optical properties of polydimethylsiloxane (PDMS) during nanosecond laser processing. Applied Surface Science, 2016, 374, 96-103.	3.1	85
97	Transfer-free synthesis of highly ordered Ge nanowire arrays on glass substrates. Applied Physics Letters, 2015, 107, 133102.	1.5	6
98	Temperature Dependence of the Piezophototronic Effect in CdS Nanowires. Advanced Functional Materials, 2015, 25, 5277-5284.	7.8	50
99	Bonding and electronic states of boron in silicon nanowires characterized by an infrared synchrotron radiation beam. Nanoscale, 2015, 7, 7246-7251.	2.8	10
100	Clear Experimental Demonstration of Hole Gas Accumulation in Ge/Si Core-Shell Nanowires. ACS Nano, 2015, 9, 12182-12188.	7.3	33
101	Vertically Aligned Ge Nanowires on Flexible Plastic Films Synthesized by (111)-Oriented Ge Seeded Vapor-Liquid-Solid Growth. ACS Applied Materials & Interfaces, 2015, 7, 18120-18124.	4.0	21
102	High Efficiency Hybrid Solar Cells Using Nanocrystalline Si Quantum Dots and Si Nanowires. ACS Nano, 2015, 9, 6891-6899.	7.3	78
103	<i>In situ</i> fabrication and optoelectronic analysis of axial CdS/p-Si nanowire heterojunctions in a high-resolution transmission electron microscope. Nanotechnology, 2015, 26, 154001.	1.3	17
104	Quantifying mean inner potential of ZnO nanowires by off-axis electron holography. Micron, 2015, 78, 67-72.	1.1	8
105	Effect of Shell Growth and Doping Conditions of Core-Shell Homo Junction Si Nanowire Solar Cells. Journal of Nanoscience and Nanotechnology, 2015, 15, 4339-4346.	0.9	12
106	Low-temperature UV ozone-treated high efficiency radial p-n junction solar cells: N-Si NW arrays embedded in a p-Si matrix. Nano Energy, 2015, 11, 219-225.	8.2	40
107	Effect of nanowire length on the performance of silicon nanowires based solar cell. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 045014.	0.7	13
108	Low-temperature (180°C) formation of large-grained Ge (111) thin film on insulator using accelerated metal-induced crystallization. Applied Physics Letters, 2014, 104, .	1.5	96

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109	Size-Tunable Magnetofluorescent Nanoparticles as In Vivo Imaging. Materials Research Society Symposia Proceedings, 2014, 1660, 7.	0.1	0
110	Formation and migration energies of a vacancy and an interstitial in a high-purity Si crystal determined by detecting complexes of point defects and hydrogen: Evaluation of activation energies of self-diffusion. Japanese Journal of Applied Physics, 2014, 53, 091302.	0.8	8
111	Inorganic/organic hybrid solar cells: optimal carrier transport in vertically aligned silicon nanowire arrays. Nanoscale, 2014, 6, 6092.	2.8	59
112	Modulation of Thermoelectric Power Factor via Radial Dopant Inhomogeneity in B-Doped Si Nanowires. Journal of the American Chemical Society, 2014, 136, 14100-14106.	6.6	16
113	Doping and characterization of impurity atoms in Si and Ge nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 320-330.	0.8	14
114	Porous Tubular Rutile TiO <sub>2</sub> Nanofibers: Synthesis, Characterization and Photocatalytic Properties. Journal of Nanoscience and Nanotechnology, 2014, 14, 3034-3040.	0.9	12
115	SERS substrates of doped germanium nanowires decorated with silver nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 187, 102-107.	1.7	9
116	Superior photocatalytic performance of reduced graphene oxide wrapped electrospun anatase mesoporous TiO <sub>2</sub> nanofibers. Journal of Alloys and Compounds, 2014, 615, 643-650.	2.8	61
117	Visible and Infra-red Light Emission in Boron-Doped Wurtzite Silicon Nanowires. Scientific Reports, 2014, 4, 3603.	1.6	46
118	Activation Energies of Self-Diffusion Mediated by Vacancies and Interstitials in a High-Purity Si Determined from Properties of Point Defects. , 2014, , .		1
119	Temperature dependent Al-induced crystallization of amorphous Ge thin films on SiO <sub>2</sub> substrates. Journal of Crystal Growth, 2013, 372, 189-192.	0.7	16
120	Enhanced photodegradation of methyl orange with TiO <sub>2</sub> nanoparticles using a triboelectric nanogenerator. Nanotechnology, 2013, 24, 295401.	1.3	88
121	Synthesis of mesoporous antimony-doped tin oxide (ATO) thin films and investigation of their electrical conductivity. CrystEngComm, 2013, 15, 4404.	1.3	16
122	Fabrication of holey silicon structures with inner radial p-n junction for solar cells. Solid State Communications, 2013, 156, 76-79.	0.9	2
123	Synthesis and characterization of Zn-doped mesoporous SnO <sub>2</sub> by using thermally-stable block copolymer templates. Dalton Transactions, 2013, 42, 6366.	1.6	9
124	Thiourea assisted one-pot easy synthesis of CdS/rGO composite by the wet chemical method: Structural, optical, and photocatalytic properties. Ceramics International, 2013, 39, 9207-9214.	2.3	57
125	Interaction of Boron and Phosphorus Impurities in Silicon Nanowires during Low-Temperature Ozone Oxidation. Journal of Physical Chemistry C, 2013, 117, 20300-20307.	1.5	22
126	Preparing the Way for Doping Wurtzite Silicon Nanowires while Retaining the Phase. Nano Letters, 2013, 13, 5900-5906.	4.5	32



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127	Growth Temperature Influence on the Luminescence of Eu,Si-Codoped AlN Phosphors. ECS Journal of Solid State Science and Technology, 2013, 2, R126-R130.	0.9	8
128	Electron Excitation Memory Induced by Light Irradiation of Hydrogenated Si Nanocrystals Embedded in SiO <sub>2</sub> . Japanese Journal of Applied Physics, 2013, 52, 115201.	0.8	8
129	Diameter-controlled growth and impurity doping of silver colloid-seeded silicon microwires to nanowires for the realization of solar cell materials. Materials Express, 2013, 3, 85-91.	0.2	8
130	Emission Enhancement of SiC/SiO <sub>2</sub> Core/Shell Nanowires Induced by the Oxide Shell. Materials Science Forum, 2012, 717-720, 557-560.	0.3	1
131	Temperature Evolution of Spin-Polarized Electron Tunneling in Silicon Nanowire-Permalloy Lateral Spin Valve System. Applied Physics Express, 2012, 5, 045001.	1.1	6
132	Top-gated germanium nanowire quantum dots in a few-electron regime. Applied Physics Letters, 2012, 100, .	1.5	9
133	A Compressive Active Stereo Imaging System with Random Pattern Projection. Applied Physics Express, 2012, 5, 072501.	1.1	4
134	Characterization of Impurity Doping and Stress in Si/Ge and Ge/Si Core-Shell Nanowires. ACS Nano, 2012, 6, 8887-8895.	7.3	64
135	Rapid synthesis of biocompatible gold nanoflowers with tailored surface textures with the assistance of amino acid molecules. RSC Advances, 2012, 2, 4608.	1.7	51
136	Biochip applications of DLC films on a resin material. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1439-1442.	0.8	4
137	Electronic Level Scheme in Boron- and Phosphorus-Doped Silicon Nanowires. Nano Letters, 2012, 12, 3012-3017.	4.5	32
138	n-ZnO/p-Si 3D heterojunction solar cells in Si holey arrays. Nanoscale, 2012, 4, 737-741.	2.8	22
139	Recrystallization and Reactivation of Dopant Atoms in Ion-Implanted Silicon Nanowires. ACS Nano, 2012, 6, 3278-3283.	7.3	22
140	Mechanical Properties of Si Nanowires as Revealed by in Situ Transmission Electron Microscopy and Molecular Dynamics Simulations. Nano Letters, 2012, 12, 1898-1904.	4.5	151
141	Luminescence properties of SiC/SiO <sub>2</sub> core-shell nanowires with different radial structure. Materials Letters, 2012, 71, 137-140.	1.3	34
142	Segregation Behaviors and Radial Distribution of Dopant Atoms in Silicon Nanowires. Nano Letters, 2011, 11, 651-656.	4.5	72
143	Size-Tunable Silicon/Iron Oxide Hybrid Nanoparticles with Fluorescence, Superparamagnetism, and Biocompatibility. Journal of the American Chemical Society, 2011, 133, 18626-18633.	6.6	55
144	Synthesis of Continuous Mesoporous Ga-Doped Titania Films with Anatase Crystallized Framework. Journal of Nanoscience and Nanotechnology, 2011, 11, 6926-6933.	0.9	10

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145	Single-Electron Transport through Semiconducting Nanowires: A Comparison between Silicon and Germanium. Japanese Journal of Applied Physics, 2011, 50, 04DN06.	0.8	1
146	A single-electron transistor and an even-odd effect in chemically synthesized Ge nanowires. Journal of Applied Physics, 2011, 109, 036101.	1.1	10
147	Demonstration of spin valve effects in silicon nanowires. Journal of Applied Physics, 2011, 109, 07C508.	1.1	12
148	Vacancy formation energy in Czochralski-grown Si crystals determined by a quenching method. Journal of Applied Physics, 2011, 110, 083531.	1.1	5
149	Single-Electron Transport through Semiconducting Nanowires: A Comparison between Silicon and Germanium. Japanese Journal of Applied Physics, 2011, 50, 04DN06.	0.8	1
150	405 Cytocompatibility of N-DLC/DLC multilayer films. The Proceedings of Ibaraki District Conference, 2011, 2011.19, 87-88.	0.0	0
151	Templateless Synthesis of Nanoporous Gold Sponge with Surface-enhanced Raman Scattering Activity. Chemistry Letters, 2010, 39, 372-373.	0.7	10
152	Flexible and Transparent Silicon Nanoparticle/Polymer Composites with Stable Luminescence. Chemistry - an Asian Journal, 2010, 5, 50-55.	1.7	26
153	Nitrogen isotopic effect in Ga <sup>15</sup> N epilayers grown by plasma-assisted molecular-beam epitaxy. Scripta Materialia, 2010, 62, 516-519.	2.6	1
154	Enhancement of the core near-band-edge emission induced by an amorphous shell in coaxial one-dimensional nanostructure: the case of SiC/SiO <sub>2</sub> core/shell self-organized nanowires. Nanotechnology, 2010, 21, 345702.	1.3	37
155	High-speed multispectral three-dimensional imaging with a compound-eye camera TOMBO. Proceedings of SPIE, 2010, , .	0.8	2
156	(Invited) An Electron-Beam-Induced Current Investigation of Electrical Defects in High-k Gate Stacks. ECS Transactions, 2010, 28, 299-313.	0.3	7
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