

Margit Zacharias

List of Publications by Year in descending order

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278
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34493

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all docs

293
docs citations

293
times ranked

14539
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of field enhanced charge transfer on the luminescence properties of Si/SiO ₂ superlattices. Scientific Reports, 2022, 12, 2641.	1.6	3
2	(Invited) Size Controlled Silicon Quantum Dots: Understanding Basic Properties and Electronic Applications. ECS Meeting Abstracts, 2022, MA2022-01, 1077-1077.	0.0	0
3	Analysis of the Growth of Laterally Aligned SnO ₂ Nanowires by Thermodynamic Considerations and Experiments. Crystal Growth and Design, 2021, 21, 191-199.	1.4	7
4	Epitaxial growth of highly textured ZnO thin films on Si using an AlN buffer layer by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 032401.	0.9	7
5	Rational Assembly of Superstructure Microparticles into Mosaic-Like Highly Oriented Monolayer for Glucose-Responsive Electrodes. Advanced Materials Interfaces, 2021, 8, 2100433.	1.9	0
6	Electroforming of Si NCs/p-Si photovoltaic devices: Enhancement of the conversion efficiency through resistive switching. Solar Energy Materials and Solar Cells, 2021, 230, 111252.	3.0	1
7	Low-Temperature Physical Vapor Deposition and Electrical Characterization of Single-Crystalline Zn Nanowires. Crystal Growth and Design, 2021, 21, 5760-5764.	1.4	1
8	Enhanced defect luminescence due to fast Auger process in cuprous iodide structures produced by solvent/anti-solvent crystallization. Journal of Luminescence, 2020, 220, 116961.	1.5	6
9	<i>In situ</i> approach to fabricate heterojunction Cu ⁿ CuO ⁿ -ZnO nanostructures for efficient photocatalytic reactions. New Journal of Chemistry, 2020, 44, 19742-19752.	1.4	12
10	Photoelectrical reading in ZnO/Si NCs/p-Si resistive switching devices. Applied Physics Letters, 2020, 116, 193503.	1.5	2
11	Transition from freestanding SnO ₂ nanowires to laterally aligned nanowires with a simulation-based experimental design. Beilstein Journal of Nanotechnology, 2020, 11, 843-853.	1.5	3
12	(Invited) Size Controlled Silicon Quantum Dots: Basic Properties and Electronic Applications. ECS Meeting Abstracts, 2020, MA2020-01, 1056-1056.	0.0	0
13	Low-power wavelength modulation in size-controlled Si nanocrystals using quantum confined Stark effect. AIP Advances, 2020, 10, 125315.	0.6	2
14	Nearly perfect near-infrared luminescence efficiency of Si nanocrystals: A comprehensive quantum yield study employing the Purcell effect. Scientific Reports, 2019, 9, 11214.	1.6	20
15	Silicon nanocrystals-based electroluminescent resistive switching device. Journal of Applied Physics, 2019, 126, .	1.1	8
16	Pathways of carrier recombination in Si/SiO ₂ nanocrystal superlattices. Journal of Applied Physics, 2019, 126, 163101.	1.1	4
17	Influence of Al ₂ O ₃ Nanoparticle Addition on a UV Cured Polyacrylate for 3D Inkjet Printing. Polymers, 2019, 11, 633.	2.0	8
18	Electron Beam Effects on Oxide Thin Films' Structure and Electrical Property Correlations. Microscopy and Microanalysis, 2019, 25, 592-600.	0.2	23

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19	Effect of Various Copper Salt Precursors on Metal-Assisted Chemical Etching of Silicon. ECS Journal of Solid State Science and Technology, 2019, 8, P93-P98.	0.9	5
20	Sphericity and roundness computation for particles using the extreme vertices model. Journal of Computational Science, 2019, 30, 28-40.	1.5	81
21	Einführung in die Festkörper- und Nanophysik. , 2019, , 123-129.		0
22	Effect of Si ₃ N ₄ -Mediated Inversion Layer on the Electroluminescence Properties of Silicon Nanocrystal Superlattices. Advanced Electronic Materials, 2018, 4, 1700666.	2.6	9
23	Interplay of bimolecular and Auger recombination in photoexcited carrier dynamics in silicon nanocrystal/silicon dioxide superlattices. Scientific Reports, 2018, 8, 1703.	1.6	13
24	Optimization of ALD-ZnO Thin Films Toward Higher Conductivity. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700880.	0.8	16
25	Absence of free carriers in silicon nanocrystals grown from phosphorus- and boron-doped silicon-rich oxide and oxynitride. Beilstein Journal of Nanotechnology, 2018, 9, 1501-1511.	1.5	7
26	Extended View on the Vapor-Liquid-Solid Mechanism for Oxide Compound Nanowires: The Role of Oxygen, Solubility, and Carbothermal Reaction. Journal of Physical Chemistry C, 2018, 122, 24407-24414.	1.5	7
27	Using HCl to Control Silver Dissolution in Metal-Assisted Chemical Etching of Silicon. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800135.	0.8	5
28	Photoluminescence dynamics and quantum yield of intrinsically conductive ZnO from atomic layer deposition. Journal of Luminescence, 2018, 201, 85-89.	1.5	12
29	Deposition temperature dependence and long-term stability of the conductivity of undoped ZnO grown by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	12
30	Modulation Doping of Silicon using Aluminium-induced Acceptor States in Silicon Dioxide. Scientific Reports, 2017, 7, 46703.	1.6	36
31	How the Oxidation Stability of Metal Catalysts Defines the Metal-Assisted Chemical Etching of Silicon. Journal of Physical Chemistry C, 2017, 121, 9296-9299.	1.5	20
32	Label-free SnO ₂ nanowire FET biosensor for protein detection. Nanotechnology, 2017, 28, 245503.	1.3	26
33	Modulation of the electroluminescence emission from ZnO/Si NCs/p-Si light-emitting devices via pulsed excitation. Applied Physics Letters, 2017, 110, .	1.5	6
34	Spatial separation of photogenerated electron-hole pairs in solution-grown ZnO tandem p-core-shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. Journal of Materials Chemistry A, 2017, 5, 14397-14405.	5.2	19
35	Flexible thin film pH sensor based on low-temperature atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700123.	1.2	20
36	Atom probe tomography of size-controlled phosphorus doped silicon nanocrystals. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600376.	1.2	10

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37	Quantum behavior of terahertz photoconductivity in silicon nanocrystals networks. Physical Review B, 2017, 95, .	1.1	7
38	Photoluminescence performance limits of Si nanocrystals in silicon oxynitride matrices. Journal of Applied Physics, 2017, 122, .	1.1	16
39	Boron-Incorporating Silicon Nanocrystals Embedded in SiO ₂ : Absence of Free Carriers vs. B-Induced Defects. Scientific Reports, 2017, 7, 8337.	1.6	27
40	Defect-Induced Luminescence Quenching vs. Charge Carrier Generation of Phosphorus Incorporated in Silicon Nanocrystals as Function of Size. Scientific Reports, 2017, 7, 863.	1.6	35
41	Quasi-metallic behavior of ZnO grown by atomic layer deposition: The role of hydrogen. Journal of Applied Physics, 2017, 122, .	1.1	15
42	Changes of the absorption cross section of Si nanocrystals with temperature and distance. Beilstein Journal of Nanotechnology, 2017, 8, 2315-2323.	1.5	9
43	Determination of Shape and Sphericity of Silicon Quantum Dots Imaged by EFTEM Tomography. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1700216.	0.8	2
44	Comment on "Thickness and temperature depending intermixing of SiO _x /SiO ₂ and SiO _x N _y /SiO ₂ superlattices: Experimental observation and thermodynamic modeling" [Appl. Phys. Lett. 108, 223102 (2016)]. Applied Physics Letters, 2016, 109, 166101.	1.5	2
45	Determination of absorption cross-section of Si nanocrystals by two independent methods based on either absorption or luminescence. Applied Physics Letters, 2016, 108, .	1.5	30
46	Si nanocrystals and nanocrystal interfaces studied by positron annihilation. Journal of Applied Physics, 2016, 120, 145302.	1.1	1
47	Optical properties of silicon nanocrystals covered by periodic array of gold nanowires. Physical Review B, 2016, 93, .	1.1	14
48	A Simple Approach for Molecular Controlled Release based on Atomic Layer Deposition Hybridized Organic-Inorganic Layers. Scientific Reports, 2016, 6, 19574.	1.6	20
49	Two-dimensional percolation threshold in confined Si nanoparticle networks. Applied Physics Letters, 2016, 108, .	1.5	28
50	Picosecond dynamics of photoexcited carriers in interacting silicon nanocrystals. Applied Surface Science, 2016, 377, 238-243.	3.1	5
51	Luminescence dynamics of hybrid ZnO nanowire/CdSe quantum dot structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 606-609.	0.8	3
52	Quasi-Direct Optical Transitions in Silicon Nanocrystals with Intensity Exceeding the Bulk. Nano Letters, 2016, 16, 1583-1589.	4.5	62
53	Resistivity of atomic layer deposition grown ZnO: The influence of deposition temperature and post-annealing. Thin Solid Films, 2016, 603, 377-381.	0.8	32
54	Charge transport in silicon nanocrystal superlattices in the terahertz regime. Physical Review B, 2015, 91, .	1.1	11

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55	Optical emission from Si -embedded silicon nanocrystals: A high-pressure Raman and photoluminescence study. <i>Physical Review B</i> , 2015, 92,	1.1	9
56	Observing the morphology of single-layered embedded silicon nanocrystals by using temperature-stable TEM membranes. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 964-970.	1.5	28
57	Electronic properties of phosphorus doped silicon nanocrystals embedded in SiO_2 . <i>Applied Physics Letters</i> , 2015, 106, .	1.5	34
58	Location and Electronic Nature of Phosphorus in the Si Nanocrystal $\hat{\text{a}}^{\text{r}}$ SiO_2 System. <i>Scientific Reports</i> , 2015, 5, 9702.	1.6	61
59	Formation of size-controlled and luminescent Si nanocrystals from $\text{SiO}_x\text{N}_y/\text{Si}_3\text{N}_4$ hetero-superlattices. <i>Journal of Applied Physics</i> , 2015, 117, 175303.	1.1	12
60	Atomic-layer-deposition alumina induced carbon on porous $\text{Ni}_x\text{Co}_1-x\text{O}$ nanonets for enhanced pseudocapacitive and Li-ion storage performance. <i>Nanotechnology</i> , 2015, 26, 014001.	1.3	21
61	Electron Tunneling from Colloidal CdSe Quantum Dots to ZnO Nanowires Studied by Time-Resolved Luminescence and Photoconductivity Experiments. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15627-15635.	1.5	16
62	Structural parameters effect on the electrical and electroluminescence properties of silicon nanocrystals/ SiO_2 superlattices. <i>Nanotechnology</i> , 2015, 26, 185704.	1.3	13
63	Enhancing the quality of the tomography of nanoporous materials for better understanding of polymer electrolyte fuel cell materials. <i>Journal of Power Sources</i> , 2015, 285, 413-417.	4.0	42
64	Dielectrophoretic investigation of Bi_2Te_3 nanowires $\hat{\text{a}}^{\text{r}}$ a microfabricated thermoelectric characterization platform for measuring the thermoelectric and structural properties of single nanowires. <i>Nanotechnology</i> , 2015, 26, 125707.	1.3	6
65	Picosecond dynamics of photoexcited carriers in silicon nanocrystal/ Si_3N_4 superlattices: Presence of K0 centers. <i>Journal of Applied Physics</i> , 2015, 117, 093101.	1.1	1
66	Ultra-long zinc oxide nanowires and boron doping based on ionic liquid assisted thermal chemical vapor deposition growth. <i>Nanoscale</i> , 2015, 7, 92-97.	2.8	12
67	Field-effect passivation on silicon nanowire solar cells. <i>Nano Research</i> , 2015, 8, 673-681.	5.8	69
68	Effects of inter-nanocrystal distance on luminescence quantum yield in ensembles of Si nanocrystals. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	37
69	Formation of size controlled silicon nanocrystals in nitrogen free silicon dioxide matrix prepared by plasma enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	28
70	Electrical and electroluminescence properties of silicon nanocrystals/ SiO_2 superlattices. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
71	Phosphorus doping of Si nanocrystals embedded in silicon oxynitride determined by atom probe tomography. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	59
72	Annealing temperature and barrier thickness effect on the structural and optical properties of silicon nanocrystals/ SiO_2 superlattices. <i>Journal of Applied Physics</i> , 2014, 116, 133505.	1.1	24

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73	Silicon nanocrystals in SiN _x /SiO ₂ hetero-superlattices: The loss of size control after thermal annealing. <i>Journal of Applied Physics</i> , 2014, 115, 244304.	1.1	19
74	A low thermal impact annealing process for SiO ₂ -embedded Si nanocrystals with optimized interface quality. <i>Journal of Applied Physics</i> , 2014, 115, 134311.	1.1	19
75	Photoexcited charge carrier dynamics in silicon nanocrystal/SiO ₂ superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 177-182.	1.3	13
76	High-temperature degradation in plasma-enhanced chemical vapor deposition Al ₂ O ₃ surface passivation layers on crystalline silicon. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	30
77	Electronic nose for toxic gas detection based on photostimulated core-shell nanowires. <i>RSC Advances</i> , 2014, 4, 35084-35088.	1.7	30
78	Energy Offset Between Silicon Quantum Structures: Interface Impact of Embedding Dielectrics as Doping Alternative. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400359.	1.9	32
79	Absence of quantum confinement effects in the photoluminescence of Si ₃ N ₄ -embedded Si nanocrystals. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	44
80	Static hot carrier populations as a function of optical excitation energy detected through energy selective contacts by optically assisted IV. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 1070-1079.	4.4	25
81	Determining the crystalline degree of silicon nanoclusters/SiO ₂ multilayers by Raman scattering. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	39
82	Deep-level emission in ZnO nanowires and bulk crystals: Excitation-intensity dependence versus crystalline quality. <i>Journal of Applied Physics</i> , 2014, 115, 233516.	1.1	11
83	Engineered High Aspect Ratio Vertical Nanotubes as a Model System for the Investigation of Catalytic Methanol Synthesis Over Cu/ZnO. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1576-1582.	4.0	9
84	Hot-phonon-induced indirect absorption in silicon nanocrystals. <i>Journal of Applied Physics</i> , 2013, 114, 173103.	1.1	4
85	Detection of real-time dynamics of drug-target interactions by ultralong nanowalls. <i>Lab on A Chip</i> , 2013, 13, 4173.	3.1	12
86	Optoelectronic characterization of SiC with embedded Si nanocrystals as solar cell absorber material. , 2013, , .		0
87	Antisolvent Crystallization Approach to Construction of CuI Superstructures with Defined Geometries. <i>ACS Nano</i> , 2013, 7, 2820-2828.	7.3	26
88	Silicon nanocrystals embedded in silicon carbide: Investigation of charge carrier transport and recombination. <i>Applied Physics Letters</i> , 2013, 102, 033507.	1.5	26
89	Charge transport in Si nanocrystal/SiO ₂ superlattices. <i>Journal of Applied Physics</i> , 2013, 113, 133703.	1.1	57
90	Silicon nanocrystals from high-temperature annealing: Characterization on device level. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 669-675.	0.8	14

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91	Tracing the Migration History of Metal Catalysts in Metal-Assisted Chemically Etched Silicon. ACS Nano, 2013, 7, 1583-1590.	7.3	27
92	Large-Scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker. Advanced Functional Materials, 2013, 23, 191-197.	7.8	12
93	Effect of temperature and excitation intensity on photoexcited charge carrier dynamics in Si-NCs/SiO ₂ superlattices. Proceedings of SPIE, 2013, , .	0.8	0
94	Structural and optical properties of size controlled Si nanocrystals in Si ₃ N ₄ matrix: The nature of photoluminescence peak shift. Journal of Applied Physics, 2013, 114, .	1.1	31
95	Intrinsic nonradiative recombination in ensembles of silicon nanocrystals. Physical Review B, 2013, 87, .	1.1	43
96	Charge transport and electroluminescence of silicon nanocrystals/SiO ₂ superlattices. Journal of Applied Physics, 2013, 114, .	1.1	27
97	Lithography: Large-Scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker (Adv. Funct. Mater. 2/2013). Advanced Functional Materials, 2013, 23, 264-264.	7.8	0
98	Photovoltaic properties of silicon nanocrystals in silicon carbide. Proceedings of SPIE, 2012, , .	0.8	2
99	Enhancement of photoluminescence signal from ultrathin layers with silicon nanocrystals. Applied Physics Letters, 2012, 100, 061908.	1.5	15
100	Doping efficiency of phosphorus doped silicon nanocrystals embedded in a SiO ₂ matrix. Applied Physics Letters, 2012, 100, 233115.	1.5	34
101	Silicon nanocrystals prepared by plasma enhanced chemical vapor deposition: Importance of parasitic oxidation for third generation photovoltaic applications. Applied Physics Letters, 2012, 101, 193103.	1.5	12
102	Gibbs free energy and equilibrium states in the Si/Si oxide systems. Journal of Physics Condensed Matter, 2012, 24, 385403.	0.7	12
103	Near-interface Si substrate 3d metal contamination during atomic layer deposition processing detected by electron spin resonance. Journal of Applied Physics, 2012, 111, .	1.1	8
104	Defect engineering of Si nanocrystal interfaces. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2449-2454.	0.8	11
105	An advanced fabrication method of highly ordered ZnO nanowire arrays on silicon substrates by atomic layer deposition. Nanotechnology, 2012, 23, 235607.	1.3	20
106	Role of Carrier Gas Flow and Species Diffusion in Nanowire Growth from Thermal CVD. Journal of Physical Chemistry C, 2012, 116, 5524-5530.	1.5	26
107	Tuning the Growth Mechanism of ZnO Nanowires by Controlled Carrier and Reaction Gas Modulation in Thermal CVD. Journal of Physical Chemistry Letters, 2012, 3, 2815-2821.	2.1	40
108	Analysis of the Temperature Dependence of the Open-Circuit Voltage. Energy Procedia, 2012, 27, 135-142.	1.8	44

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109	Semiconductor Nanowires and Nanotubes: From Fundamentals to Diverse Applications. Journal of Nanotechnology, 2012, 2012, 1-2.	1.5	5
110	Superior Functionality by Design: Selective Ozone Sensing Realized by Rationally Constructed High-Index ZnO Surfaces. Small, 2012, 8, 3307-3314.	5.2	23
111	Fundamental temperature-dependent properties of the Si nanocrystal band gap. Physical Review B, 2012, 85, .	1.1	67
112	Fabrication of micron-sized tetrahedra by SiO ₂ micromachining and retraction edge lithography. Journal of Micromechanics and Microengineering, 2012, 22, 085032.	1.5	7
113	Homoepitaxial Branching: An Unusual Polymorph of Zinc Oxide Derived from Seeded Solution Growth. ACS Nano, 2012, 6, 7133-7141.	7.3	47
114	Photoluminescent and gas-sensing properties of ZnO nanowires prepared by an ionic liquid assisted vapor transfer approach. Journal of Applied Physics, 2012, 112, 034311.	1.1	14
115	Strained Interface Defects in Silicon Nanocrystals. Advanced Functional Materials, 2012, 22, 3223-3232.	7.8	63
116	A Membrane Device for Substrate-Free Photovoltaic Characterization of Quantum Dot Based p-i-n Solar Cells. Advanced Materials, 2012, 24, 3124-3129.	11.1	34
117	Bringing Order to the World of Nanowire Devices by Phase Shift Lithography. Nano Letters, 2011, 11, 3513-3518.	4.5	23
118	Controlled Synthesis of ZnO Nanostructures: The Role of Source and Substrate Temperatures. Journal of Physical Chemistry C, 2011, 115, 757-761.	1.5	45
119	Structural and optical characterization of size controlled silicon nanocrystals in SiO ₂ /SiO _x N _y multilayers. Energy Procedia, 2011, 10, 43-48.	1.8	16
120	Toward Discrete Multilayered Composite Structures: Do Hollow Networks Form in a Polycrystalline Infinite Nanoplane by the Kirkendall Effect?. Chemistry of Materials, 2011, 23, 4445-4451.	3.2	13
121	Formation of size-controlled silicon nanocrystals in plasma enhanced chemical vapor deposition grown SiO _x N _y /SiO ₂ superlattices. Thin Solid Films, 2011, 520, 121-125.	0.8	115
122	Multifunctional ZnO-Nanowire-Based Sensor. Advanced Functional Materials, 2011, 21, 4342-4348.	7.8	105
123	Regulated Oxidation of Nickel in Multisegmented Nickel-Platinum Nanowires: An Entry to Wavy Nanopeapods. Angewandte Chemie - International Edition, 2011, 50, 10855-10858.	7.2	21
124	Superparamagnetic behavior in cobalt iron oxide nanotube arrays by atomic layer deposition. Journal of Applied Physics, 2011, 110, .	1.1	18
125	Oxidation behaviour of carbon monoxide at the photostimulated surface of ZnO nanowires. Journal Physics D: Applied Physics, 2011, 44, 305302.	1.3	6
126	Improved optical properties of ZnO thin films by concurrently introduced interfacial voids during thermal annealing. Applied Physics Letters, 2011, 99, .	1.5	20

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127	Quasi-Fermi-level splitting in ideal silicon nanocrystal superlattices. <i>Physical Review B</i> , 2011, 84, .	1.1	37
128	Rapid thermal annealing of size-controlled Si nanocrystals: Dependence of interface defect density on thermal budget. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	22
129	Size dependence of P _b -type photoluminescence quenching defects at the Si nanocrystal interface. <i>Europhysics Letters</i> , 2011, 96, 27003.	0.7	21
130	Photoluminescence Properties of Er-Implanted SiO/SiO₂ Multilayered Structures with Amorphous or Crystalline Si Nanoclusters. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011, 6, 491-494.	0.1	0
131	Ulrich M. GÃ¶rsele. <i>MRS Bulletin</i> , 2010, 35, 266-266.	1.7	0
132	Diffusionâ€Induced Void Evolution in Coreâ€Shell Nanowires: Elaborated View on the Nanoscale Kirkendall Effect. <i>Israel Journal of Chemistry</i> , 2010, 50, 439-448.	1.0	16
133	ZnO nanowire arrays â€ Pattern generation, growth and applications. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2305-2314.	0.7	32
134	Controlled Positioning of Large Interfacial Nanocavities via Stressâ€Engineered Void Localization. <i>Small</i> , 2010, 6, 1603-1607.	5.2	27
135	Nanowireâ€Based Sensors. <i>Small</i> , 2010, 6, 1705-1722.	5.2	334
136	Modulation of carrier density in ZnO nanowires without impurity doping. <i>Applied Physics Letters</i> , 2010, 96, 123110.	1.5	9
137	Pb(O) centers at the Si-nanocrystal/SiO2 interface as the dominant photoluminescence quenching defect. <i>Journal of Applied Physics</i> , 2010, 107, 084309.	1.1	41
138	Catalyst-Free Growth of ZnO Nanowires Based on Topographical Confinement and Preferential Chemisorption and Their Use for Room Temperature CO Detection. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10092-10100.	1.5	43
139	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	86
140	Atomic Layer Deposition on Phase-Shift Lithography Generated Photoresist Patterns for 1D Nanochannel Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3473-3478.	4.0	20
141	Reactive VLS and the Reversible Switching between VS and VLS Growth Modes for ZnO Nanowire Growth. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10323-10329.	1.5	62
142	ZnO Nanowire Growth: A Deeper Understanding Based on Simulations and Controlled Oxygen Experiments. <i>Crystal Growth and Design</i> , 2010, 10, 1585-1589.	1.4	47
143	Nitrogen at the <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mtext>Si-nanocrystal</mml:mtext> <mml:mo>/</mml:mo> <mml:msub> <mml:mrow> <mml:mtext>S</mml:mtext> </mml:mrow> </mml:msub> </mml:mrow> and its influence on luminescence and interface defects. <i>Physical Review B</i> , 2010, 82, .		
144	Far-field observation of the radial profile of visible whispering-gallery modes in a single microdisk based on Si-nanocrystal/SiO2 superlattices. <i>Journal of Applied Physics</i> , 2009, 106, 123102.	1.1	0

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145	Surface-diffusion induced growth of ZnO nanowires. Journal of Crystal Growth, 2009, 311, 3216-3219.	0.7	34
146	Inherent paramagnetic defects in layered nanocrystalline Si/SiO ₂ superstructures. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 947-950.	1.3	1
147	ZnO-based ternary compound nanotubes and nanowires. Journal of Materials Chemistry, 2009, 19, 885-900.	6.7	101
148	From Ordered Arrays of Nanowires to Controlled Solid State Reactions. Advances in Solid State Physics, 2009, , 3-12.	0.8	1
149	Multitwinned Spinel Nanowires by Assembly of Nanobricks <i>via</i> Oriented Attachment: A Case Study of Zn ₂ TiO ₄ . ACS Nano, 2009, 3, 555-562.	7.3	64
150	Optical Properties of Silicon Nanocrystals in Silicon Dioxide Matrix Over Wide Ranges of Excitation Intensity and Energy. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 147-151.	0.1	5
151	Kontrollierte Hohlräume in der Nanowelt. Physik in Unserer Zeit, 2008, 39, 59-60.	0.0	0
152	Gold at the root or at the Tip of ZnO Nanowires: A Model. Small, 2008, 4, 1615-1619.	5.2	44
153	Transmission Electron Microscopy in situ Fabrication of ZnO/Al ₂ O ₃ Composite Nanotubes by Electron-Beam-Induced Local Etching of ZnO/Al ₂ O ₃ Core/Shell Nanowires. Small, 2008, 4, 2112-2117.	5.2	32
154	Classification and control of the origin of photoluminescence from Si nanocrystals. Nature Nanotechnology, 2008, 3, 174-178.	15.6	482
155	Enhanced surface-excitonic emission in ZnO/Al ₂ O ₃ core-shell nanowires. Nanotechnology, 2008, 19, 305202.	1.3	168
156	Influence of Temperature on Evolution of Coaxial ZnO/Al ₂ O ₃ One-Dimensional Heterostructures: From Core-Shell Nanowires to Spinel Nanotubes and Porous Nanowires. Journal of Physical Chemistry C, 2008, 112, 4068-4074.	1.5	73
157	Synthesis and optical properties of ZnO and carbon nanotube based coaxial heterostructures. Applied Physics Letters, 2008, 93, 103108.	1.5	27
158	Surface Reaction of ZnO Nanowires with Electron-Beam Generated Alumina Vapor. Journal of Physical Chemistry C, 2008, 112, 6770-6774.	1.5	15
159	Si-CdSSe Core/Shell Nanowires with Continuously Tunable Light Emission. Nano Letters, 2008, 8, 3413-3417.	4.5	58
160	Hierarchical Three-Dimensional ZnO and Their Shape-Preserving Transformation into Hollow ZnAl ₂ O ₄ Nanostructures. Chemistry of Materials, 2008, 20, 3487-3494.	3.2	54
161	Paramagnetic point defects at SiO ₂ /nanocrystalline Si interfaces. Applied Physics Letters, 2008, 93, .	1.5	22
162	Electrical analysis of individual ZnO nanowires. Journal of Applied Physics, 2008, 104, 014308.	1.1	28

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163	Inherent paramagnetic defects in layered Si/SiO ₂ superstructures with Si nanocrystals. Journal of Applied Physics, 2008, 104, 103518.	1.1	29
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