

# Margit Zacharias

## List of Publications by Year in descending order

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278  
papers

13,106  
citations

30070

54  
h-index

27406

106  
g-index

293  
all docs

293  
docs citations

293  
times ranked

12767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Nanotubes and Hollow Nanoparticles Based on Kirkendall and Diffusion Processes: A Review. <i>Small</i> , 2007, 3, 1660-1671.	10.0	872
2	Size-controlled highly luminescent silicon nanocrystals: A SiO/SiO <sub>2</sub> superlattice approach. <i>Applied Physics Letters</i> , 2002, 80, 661-663.	3.3	789
3	Semiconductor Nanowires: From Self-Organization to Patterned Growth. <i>Small</i> , 2006, 2, 700-717.	10.0	715
4	Monocrystalline spinel nanotube fabrication based on the Kirkendall effect. <i>Nature Materials</i> , 2006, 5, 627-631.	27.5	699
5	Classification and control of the origin of photoluminescence from Si nanocrystals. <i>Nature Nanotechnology</i> , 2008, 3, 174-178.	31.5	482
6	Influence of Surface Diffusion on the Formation of Hollow Nanostructures Induced by the Kirkendall Effect: The Basic Concept. <i>Nano Letters</i> , 2007, 7, 993-997.	9.1	363
7	Nanowire-Based Sensors. <i>Small</i> , 2010, 6, 1705-1722.	10.0	334
8	Silicon Nanocrystals: Size Matters. <i>Advanced Materials</i> , 2005, 17, 795-803.	21.0	274
9	Blue luminescence in films containing Ge and GeO <sub>2</sub> nanocrystals: The role of defects. <i>Applied Physics Letters</i> , 1997, 71, 380-382.	3.3	243
10	Nanocrystalline-silicon superlattice produced by controlled recrystallization. <i>Applied Physics Letters</i> , 1998, 72, 43-45.	3.3	243
11	Template-Assisted Large-Scale Ordered Arrays of ZnO Pillars for Optical and Piezoelectric Applications. <i>Small</i> , 2006, 2, 561-568.	10.0	209
12	Crystallization of amorphous superlattices in the limit of ultrathin films with oxide interfaces. <i>Physical Review B</i> , 2000, 62, 8391-8396.	3.2	202
13	Thermal crystallization of amorphous Si/SiO <sub>2</sub> superlattices. <i>Applied Physics Letters</i> , 1999, 74, 2614-2616.	3.3	187
14	Excitons in Si nanocrystals: Confinement and migration effects. <i>Physical Review B</i> , 2004, 69, .	3.2	174
15	Enhanced surface-excitonic emission in ZnO/Al <sub>2</sub> O <sub>3</sub> core-shell nanowires. <i>Nanotechnology</i> , 2008, 19, 305202.	2.6	168
16	Si rings, Si clusters, and Si nanocrystals—different states of ultrathin SiO <sub>x</sub> layers. <i>Applied Physics Letters</i> , 2002, 81, 4248-4250.	3.3	165
17	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , 2005, 16, 913-917.	2.6	147
18	Multilevel charge storage in silicon nanocrystal multilayers. <i>Applied Physics Letters</i> , 2005, 87, 202110.	3.3	138

#	ARTICLE	IF	CITATIONS
19	Quantum confinement in nanoscale silicon: The correlation of size with bandgap and luminescence. Solid State Communications, 1998, 105, 317-322.	1.9	136
20	Two-dimensional dendritic ZnO nanowires from oxidation of Zn microcrystals. Applied Physics Letters, 2004, 85, 4142-4144.	3.3	130
21	Fracture strength and Young's modulus of ZnO nanowires. Nanotechnology, 2007, 18, 205503.	2.6	130
22	Formation of size-controlled silicon nanocrystals in plasma enhanced chemical vapor deposition grown SiO <sub>x</sub> N <sub>y</sub> /SiO <sub>2</sub> superlattices. Thin Solid Films, 2011, 520, 121-125.	1.8	115
23	Well-ordered ZnO nanowire arrays on GaN substrate fabricated via nanosphere lithography. Journal of Crystal Growth, 2006, 287, 34-38.	1.5	108
24	Multifunctional ZnO-Nanowire-Based Sensor. Advanced Functional Materials, 2011, 21, 4342-4348.	14.9	105
25	Retarded oxidation of Si nanowires. Applied Physics Letters, 2006, 89, 263106.	3.3	104
26	ZnO-based ternary compound nanotubes and nanowires. Journal of Materials Chemistry, 2009, 19, 885-900.	6.7	101
27	Vapour-transport-deposition growth of ZnO nanostructures: switch between axial wires and axial belts by indium doping. Nanotechnology, 2006, 17, S231-S239.	2.6	97
28	On the growth mechanism and optical properties of ZnO multi-layer nanosheets. Applied Physics A: Materials Science and Processing, 2004, 79, 1895-1900.	2.3	96
29	Laser-Interference Lithography Tailored for Highly Symmetrically Arranged ZnO Nanowire Arrays. Small, 2007, 3, 76-80.	10.0	95
30	Analysis of Silicon Nanowires Grown by Combining SiO Evaporation with the VLS Mechanism. Journal of the Electrochemical Society, 2004, 151, G472.	2.9	91
31	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. Journal of Applied Physics, 2010, 107, .	2.5	86
32	Optical gain in monodispersed silicon nanocrystals. Journal of Applied Physics, 2004, 96, 3164-3171.	2.5	83
33	Sphericity and roundness computation for particles using the extreme vertices model. Journal of Computational Science, 2019, 30, 28-40.	2.9	81
34	Growth mechanism and characterization of zinc oxide microcages. Solid State Communications, 2004, 130, 517-521.	1.9	75
35	ZnO nanowires and nanobelts: Shape selection and thermodynamic modeling. Applied Physics Letters, 2007, 90, 143116.	3.3	73
36	Influence of Temperature on Evolution of Coaxial ZnO/Al <sub>2</sub> O <sub>3</sub> One-Dimensional Heterostructures: From Core-Shell Nanowires to Spinel Nanotubes and Porous Nanowires. Journal of Physical Chemistry C, 2008, 112, 4068-4074.	3.1	73

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37	Ferroelectric nanotubes fabricated using nanowires as positive templates. Applied Physics Letters, 2006, 89, 172907.	3.3	72
38	Light emission from Ge and GeO <sub>2</sub> nanocrystals. Journal of Non-Crystalline Solids, 1998, 227-230, 1058-1062.	3.1	70
39	Patterned growth of aligned ZnO nanowire arrays on sapphire and GaN layers. Superlattices and Microstructures, 2004, 36, 95-105.	3.1	70
40	Single-crystalline MgAl <sub>2</sub> O <sub>4</sub> spinel nanotubes using a reactive and removable MgO nanowire template. Nanotechnology, 2006, 17, 5157-5162.	2.6	69
41	Field-effect passivation on silicon nanowire solar cells. Nano Research, 2015, 8, 673-681.	10.4	69
42	Fundamental temperature-dependent properties of the Si nanocrystal band gap. Physical Review B, 2012, 85, .	3.2	67
43	Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. Nano Letters, 2007, 7, 2970-2975.	9.1	65
44	Multitwinned Spinel Nanowires by Assembly of Nanobricks <i>via</i> Oriented Attachment: A Case Study of Zn <sub>2</sub> TiO <sub>4</sub> . ACS Nano, 2009, 3, 555-562.	14.6	64
45	Strained Interface Defects in Silicon Nanocrystals. Advanced Functional Materials, 2012, 22, 3223-3232.	14.9	63
46	Properties of hydrogenated amorphous silicon suboxide alloys with visible room-temperature photoluminescence. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1996, 73, 799-816.	0.6	62
47	Si nanocrystal based memories: Effect of the nanocrystal density. Journal of Applied Physics, 2006, 100, 014310.	2.5	62
48	Reactive VLS and the Reversible Switching between VS and VLS Growth Modes for ZnO Nanowire Growth. Journal of Physical Chemistry C, 2010, 114, 10323-10329.	3.1	62
49	Quasi-Direct Optical Transitions in Silicon Nanocrystals with Intensity Exceeding the Bulk. Nano Letters, 2016, 16, 1583-1589.	9.1	62
50	Location and Electronic Nature of Phosphorus in the Si Nanocrystal $\hat{\alpha}$ ' SiO <sub>2</sub> System. Scientific Reports, 2015, 5, 9702.	3.3	61
51	Phosphorus doping of Si nanocrystals embedded in silicon oxynitride determined by atom probe tomography. Journal of Applied Physics, 2014, 115, .	2.5	59
52	Si-CdSSe Core/Shell Nanowires with Continuously Tunable Light Emission. Nano Letters, 2008, 8, 3413-3417.	9.1	58
53	Phase separation of thin SiO layers in amorphous SiO/SiO <sub>2</sub> superlattices during annealing. Journal of Physics Condensed Matter, 2003, 15, S2887-S2895.	1.8	57
54	Electrical properties of nominally undoped silicon nanowires grown by molecular-beam epitaxy. Applied Physics Letters, 2007, 90, 012105.	3.3	57

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55	Charge transport in Si nanocrystal/SiO <sub>2</sub> superlattices. Journal of Applied Physics, 2013, 113, 133703.	2.5	57
56	Comparative study of photoluminescence of undoped and erbium-doped size-controlled nanocrystalline Si <sup>3+</sup> •SiO <sub>2</sub> multilayered structures. Journal of Applied Physics, 2004, 96, 2254-2260.	2.5	56
57	High-Quality Alloyed CdS <sub>x</sub> Se <sub>1-x</sub> Whiskers as Waveguides with Tunable Stimulated Emission. Journal of Physical Chemistry B, 2006, 110, 22313-22317.	2.6	56
58	Hierarchical Three-Dimensional ZnO and Their Shape-Preserving Transformation into Hollow ZnAl <sub>2</sub> O <sub>4</sub> Nanostructures. Chemistry of Materials, 2008, 20, 3487-3494.	6.7	54
59	Self-assembly of ZnO nanowires and the spatial resolved characterization of their luminescence. Nanotechnology, 2004, 15, 1401-1404.	2.6	52
60	Stimulated emission from ZnO nanorods. Physica Status Solidi (B): Basic Research, 2006, 243, 853-857.	1.5	47
61	Electronic structure and chemical environment of silicon nanoclusters embedded in a silicon dioxide matrix. Applied Physics Letters, 2006, 88, 163103.	3.3	47
62	ZnO Nanowire Growth: A Deeper Understanding Based on Simulations and Controlled Oxygen Experiments. Crystal Growth and Design, 2010, 10, 1585-1589.	3.0	47
63	Homoepitaxial Branching: An Unusual Polymorph of Zinc Oxide Derived from Seeded Solution Growth. ACS Nano, 2012, 6, 7133-7141.	14.6	47
64	A comparative study of Ge nanocrystals in SixGe <sub>y</sub> O <sub>z</sub> alloys and SiO <sub>x</sub> /GeO <sub>y</sub> multilayers. Journal of Applied Physics, 1997, 81, 2384-2390.	2.5	45
65	Controlled Synthesis of ZnO Nanostructures: The Role of Source and Substrate Temperatures. Journal of Physical Chemistry C, 2011, 115, 757-761.	3.1	45
66	Gold at the root or at the Tip of ZnO Nanowires: A Model. Small, 2008, 4, 1615-1619.	10.0	44
67	Nitrogen at the $\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Si-nanocrystal} \langle \text{mml:mtext} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle$ and its influence on luminescence and interface defects. Physical Review B, 2010, 82, .	3.2	44
68	Analysis of the Temperature Dependence of the Open-Circuit Voltage. Energy Procedia, 2012, 27, 135-142.	1.8	44
69	Absence of quantum confinement effects in the photoluminescence of Si <sub>3</sub> N <sub>4</sub> embedded Si nanocrystals. Journal of Applied Physics, 2014, 115, .	2.5	44
70	Properties of sputtered a-SiO <sub>2</sub> :H alloys with a visible luminescence. Journal of Non-Crystalline Solids, 1993, 164-166, 1089-1092.	3.1	43
71	Local luminescence of ZnO nanowire-covered surface: A cathodoluminescence microscopy study. Applied Physics Letters, 2005, 86, 023113.	3.3	43
72	Catalyst-Free Growth of ZnO Nanowires Based on Topographical Confinement and Preferential Chemisorption and Their Use for Room Temperature CO Detection. Journal of Physical Chemistry C, 2010, 114, 10092-10100.	3.1	43

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73	Intrinsic nonradiative recombination in ensembles of silicon nanocrystals. <i>Physical Review B</i> , 2013, 87, .	3.2	43
74	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.	7.8	42
75	Pb(O) centers at the Si-nanocrystal/SiO <sub>2</sub> interface as the dominant photoluminescence quenching defect. <i>Journal of Applied Physics</i> , 2010, 107, 084309.	2.5	41
76	Tuning the Growth Mechanism of ZnO Nanowires by Controlled Carrier and Reaction Gas Modulation in Thermal CVD. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2815-2821.	4.6	40
77	Nanocrystalline silicon superlattices: fabrication and characterization. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 1132-1136.	3.1	39
78	Determining the crystalline degree of silicon nanoclusters/SiO <sub>2</sub> multilayers by Raman scattering. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	39
79	Visible range whispering-gallery mode in microdisk array based on size-controlled Si nanocrystals. <i>Applied Physics Letters</i> , 2006, 88, 153120.	3.3	38
80	Fabrication of Nanocrystalline Silicon Superlattices by Controlled Thermal Recrystallization. <i>Physica Status Solidi A</i> , 1998, 165, 69-77.	1.7	37
81	Highly efficient sensitizing of erbium ion luminescence in size-controlled nanocrystalline Si/SiO <sub>2</sub> superlattice structures. <i>Applied Physics Letters</i> , 2004, 84, 2512-2514.	3.3	37
82	Quasi-Fermi-level splitting in ideal silicon nanocrystal superlattices. <i>Physical Review B</i> , 2011, 84, .	3.2	37
83	Effects of inter-nanocrystal distance on luminescence quantum yield in ensembles of Si nanocrystals. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	37
84	Size controlled nc-Si synthesis by SiO/SiO <sub>2</sub> superlattices. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 1075-1078.	3.1	36
85	Modulation Doping of Silicon using Aluminium-induced Acceptor States in Silicon Dioxide. <i>Scientific Reports</i> , 2017, 7, 46703.	3.3	36
86	Defect-Induced Luminescence Quenching vs. Charge Carrier Generation of Phosphorus Incorporated in Silicon Nanocrystals as Function of Size. <i>Scientific Reports</i> , 2017, 7, 863.	3.3	35
87	Bright luminescence from erbium doped nc-Si/SiO <sub>2</sub> superlattices. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 678-682.	3.1	34
88	Surface-diffusion induced growth of ZnO nanowires. <i>Journal of Crystal Growth</i> , 2009, 311, 3216-3219.	1.5	34
89	Doping efficiency of phosphorus doped silicon nanocrystals embedded in a SiO <sub>2</sub> matrix. <i>Applied Physics Letters</i> , 2012, 100, 233115.	3.3	34
90	A Membrane Device for Substrate-Free Photovoltaic Characterization of Quantum Dot Based p-i-n Solar Cells. <i>Advanced Materials</i> , 2012, 24, 3124-3129.	21.0	34

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91	Electronic properties of phosphorus doped silicon nanocrystals embedded in SiO <sub>2</sub> . Applied Physics Letters, 2015, 106, .	3.3	34
92	Fabrication and Red-Color Lasing of Individual Highly Uniform Single-Crystal CdSe Nanobelts. Journal of Physical Chemistry C, 2007, 111, 14253-14256.	3.1	33
93	Size-Controlled Si Nanocrystals for Photonic and Electronic Applications. Solid State Phenomena, 2003, 94, 95-104.	0.3	32
94	Single-Crystalline CdSe Nanostructures: from Primary Grains to Oriented Nanowires. Chemistry of Materials, 2006, 18, 6094-6096.	6.7	32
95	Transmission Electron Microscopy in situ Fabrication of ZnO/Al <sub>2</sub> O <sub>3</sub> Composite Nanotubes by Electron-Beam-Induced Local Etching of ZnO/Al <sub>2</sub> O <sub>3</sub> Core/Shell Nanowires. Small, 2008, 4, 2112-2117.	10.0	32
96	ZnO nanowire arrays – Pattern generation, growth and applications. Physica Status Solidi (B): Basic Research, 2010, 247, 2305-2314.	1.5	32
97	Energy Offset Between Silicon Quantum Structures: Interface Impact of Embedding Dielectrics as Doping Alternative. Advanced Materials Interfaces, 2014, 1, 1400359.	3.7	32
98	Resistivity of atomic layer deposition grown ZnO: The influence of deposition temperature and post-annealing. Thin Solid Films, 2016, 603, 377-381.	1.8	32
99	Structural and optical properties of size controlled Si nanocrystals in Si <sub>3</sub> N <sub>4</sub> matrix: The nature of photoluminescence peak shift. Journal of Applied Physics, 2013, 114, .	2.5	31
100	High-temperature degradation in plasma-enhanced chemical vapor deposition Al <sub>2</sub> O <sub>3</sub> surface passivation layers on crystalline silicon. Journal of Applied Physics, 2014, 116, .	2.5	30
101	Electronic nose for toxic gas detection based on photostimulated core-shell nanowires. RSC Advances, 2014, 4, 35084-35088.	3.6	30
102	Determination of absorption cross-section of Si nanocrystals by two independent methods based on either absorption or luminescence. Applied Physics Letters, 2016, 108, .	3.3	30
103	Inherent paramagnetic defects in layered Si/SiO <sub>2</sub> superstructures with Si nanocrystals. Journal of Applied Physics, 2008, 104, 103518.	2.5	29
104	Electrical analysis of individual ZnO nanowires. Journal of Applied Physics, 2008, 104, 014308.	2.5	28
105	Formation of size controlled silicon nanocrystals in nitrogen free silicon dioxide matrix prepared by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2014, 116, .	2.5	28
106	Observing the morphology of single-layered embedded silicon nanocrystals by using temperature-stable TEM membranes. Beilstein Journal of Nanotechnology, 2015, 6, 964-970.	2.8	28
107	Two-dimensional percolation threshold in confined Si nanoparticle networks. Applied Physics Letters, 2016, 108, .	3.3	28
108	Synthesis and optical properties of ZnO and carbon nanotube based coaxial heterostructures. Applied Physics Letters, 2008, 93, 103108.	3.3	27

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109	Controlled Positioning of Large Interfacial Nanocavities via Stress-Engineered Void Localization. <i>Small</i> , 2010, 6, 1603-1607.	10.0	27
110	Tracing the Migration History of Metal Catalysts in Metal-Assisted Chemically Etched Silicon. <i>ACS Nano</i> , 2013, 7, 1583-1590.	14.6	27
111	Charge transport and electroluminescence of silicon nanocrystals/SiO <sub>2</sub> superlattices. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	27
112	Boron-Incorporating Silicon Nanocrystals Embedded in SiO <sub>2</sub> : Absence of Free Carriers vs. B-Induced Defects. <i>Scientific Reports</i> , 2017, 7, 8337.	3.3	27
113	Role of Carrier Gas Flow and Species Diffusion in Nanowire Growth from Thermal CVD. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5524-5530.	3.1	26
114	Antisolvent Crystallization Approach to Construction of CuI Superstructures with Defined Geometries. <i>ACS Nano</i> , 2013, 7, 2820-2828.	14.6	26
115	Silicon nanocrystals embedded in silicon carbide: Investigation of charge carrier transport and recombination. <i>Applied Physics Letters</i> , 2013, 102, 033507.	3.3	26
116	Label-free SnO <sub>2</sub> nanowire FET biosensor for protein detection. <i>Nanotechnology</i> , 2017, 28, 245503.	2.6	26
117	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.	8.1	25
118	Fabrication and photoluminescence properties of erbium doped size-controlled silicon nanocrystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 105, 214-220.	3.5	24
119	Quantum dot emitters in two-dimensional photonic crystals of macroporous silicon. <i>Applied Physics Letters</i> , 2005, 87, 142107.	3.3	24
120	Periodic chains of gold nanoparticles and the role of oxygen during the growth of silicon nanowires. <i>Applied Physics Letters</i> , 2006, 89, 173111.	3.3	24
121	Annealing temperature and barrier thickness effect on the structural and optical properties of silicon nanocrystals/SiO <sub>2</sub> superlattices. <i>Journal of Applied Physics</i> , 2014, 116, 133505.	2.5	24
122	Bringing Order to the World of Nanowire Devices by Phase Shift Lithography. <i>Nano Letters</i> , 2011, 11, 3513-3518.	9.1	23
123	Superior Functionality by Design: Selective Ozone Sensing Realized by Rationally Constructed High-Index ZnO Surfaces. <i>Small</i> , 2012, 8, 3307-3314.	10.0	23
124	Electron Beam Effects on Oxide Thin Films—Structure and Electrical Property Correlations. <i>Microscopy and Microanalysis</i> , 2019, 25, 592-600.	0.4	23
125	Physical properties of a-SiO <sub>x</sub> : H alloys prepared by dc magnetron sputtering with water vapour as oxygen source. <i>Journal of Non-Crystalline Solids</i> , 1994, 169, 29-36.	3.1	22
126	Extraordinary crystallization of amorphous Si/SiO <sub>2</sub> superlattices. <i>Journal of Non-Crystalline Solids</i> , 2000, 266-269, 640-644.	3.1	22



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127	Paramagnetic point defects at SiO <sub>2</sub> /nanocrystalline Si interfaces. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	22
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, .	2.5	22
129	On the morphological instability of silicon/silicon dioxide nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 1405-1408.	2.3	21
130	Regulated Oxidation of Nickel in Multisegmented Nickel-Platinum Nanowires: An Entry to Wavy Nanopeapods. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10855-10858.	13.8	21
131	Size dependence of P <sub>b</sub> -type photoluminescence quenching defects at the Si nanocrystal interface. <i>Europhysics Letters</i> , 2011, 96, 27003.	2.0	21
132	Atomic-layer-deposition alumina induced carbon on porous Ni <sub>x</sub> Co <sub>1-x</sub> O nanonets for enhanced pseudocapacitive and Li-ion storage performance. <i>Nanotechnology</i> , 2015, 26, 014001.	2.6	21
133	Direct imaging of the spectral emission characteristic of an InGaN/GaN-ultraviolet light-emitting diode by highly spectrally and spatially resolved electroluminescence and photoluminescence microscopy. <i>Applied Physics Letters</i> , 1999, 75, 3440-3442.	3.3	20
134	Atomic Layer Deposition on Phase-Shift Lithography Generated Photoresist Patterns for 1D Nanochannel Fabrication. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 3473-3478.	8.0	20
135	Improved optical properties of ZnO thin films by concurrently introduced interfacial voids during thermal annealing. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	20
136	An advanced fabrication method of highly ordered ZnO nanowire arrays on silicon substrates by atomic layer deposition. <i>Nanotechnology</i> , 2012, 23, 235607.	2.6	20
137	A Simple Approach for Molecular Controlled Release based on Atomic Layer Deposition Hybridized Organic-Inorganic Layers. <i>Scientific Reports</i> , 2016, 6, 19574.	3.3	20
138	How the Oxidation Stability of Metal Catalysts Defines the Metal-Assisted Chemical Etching of Silicon. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9296-9299.	3.1	20
139	Flexible thin film pH sensor based on low-temperature atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700123.	2.4	20
140	Nearly perfect near-infrared luminescence efficiency of Si nanocrystals: A comprehensive quantum yield study employing the Purcell effect. <i>Scientific Reports</i> , 2019, 9, 11214.	3.3	20
141	Formation of Ge nanocrystals with sharp size distribution: structural and optical characterization. <i>Superlattices and Microstructures</i> , 1995, 18, 139-146.	3.1	19
142	Formation of Ge nanocrystals in amorphous Ge <sub>x</sub> Si <sub>1-x</sub> and SiGe <sub>x</sub> O <sub>2-x</sub> alloy films. <i>Thin Solid Films</i> , 1996, 278, 32-36.	1.8	19
143	Silicon nanocrystals in SiN <sub>x</sub> /SiO <sub>2</sub> hetero-superlattices: The loss of size control after thermal annealing. <i>Journal of Applied Physics</i> , 2014, 115, 244304.	2.5	19
144	A low thermal impact annealing process for SiO <sub>2</sub> -embedded Si nanocrystals with optimized interface quality. <i>Journal of Applied Physics</i> , 2014, 115, 134311.	2.5	19

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145	Spatial separation of photogenerated electron-hole pairs in solution-grown ZnO tandem core-shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14397-14405.	10.3	19
146	Electrical behavior of size-controlled Si nanocrystals arranged as single layers. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 1631-1634.	2.3	18
147	Superparamagnetic behavior in cobalt iron oxide nanotube arrays by atomic layer deposition. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	18
148	A low-temperature evaporation route for ZnO nanoneedles and nanosaws. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 457-460.	2.3	17
149	Growth and optical properties of phosphorus-doped ZnO nanowires. <i>Solid State Communications</i> , 2007, 143, 570-573.	1.9	16
150	Diffusion-Induced Void Evolution in Core-Shell Nanowires: Elaborated View on the Nanoscale Kirkendall Effect. <i>Israel Journal of Chemistry</i> , 2010, 50, 439-448.	2.3	16
151	Structural and optical characterization of size controlled silicon nanocrystals in SiO <sub>2</sub> /SiO <sub>x</sub> N <sub>y</sub> multilayers. <i>Energy Procedia</i> , 2011, 10, 43-48.	1.8	16
152	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.	3.1	16
153	Photoluminescence performance limits of Si nanocrystals in silicon oxynitride matrices. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	16
154	Optimization of ALD-ZnO Thin Films Toward Higher Conductivity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700880.	1.8	16
155	Integration of Erbium-Doped Lithium Niobate Microtubes into Ordered Macroporous Silicon. <i>Advanced Materials</i> , 2006, 18, 363-366.	21.0	15
156	Surface Reaction of ZnO Nanowires with Electron-Beam Generated Alumina Vapor. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6770-6774.	3.1	15
157	Enhancement of photoluminescence signal from ultrathin layers with silicon nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, 061908.	3.3	15
158	Quasi-metallic behavior of ZnO grown by atomic layer deposition: The role of hydrogen. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	15
159	Compositional investigation of sputtered amorphous SiO <sub>x</sub> :H. <i>Solid State Communications</i> , 1993, 87, 805-808.	1.9	14
160	Periodically arranged point defects in two-dimensional photonic crystals. <i>Physical Review B</i> , 2004, 70, .	3.2	14
161	Photoluminescent and gas-sensing properties of ZnO nanowires prepared by an ionic liquid assisted vapor transfer approach. <i>Journal of Applied Physics</i> , 2012, 112, 034311.	2.5	14
162	Silicon nanocrystals from high-temperature annealing: Characterization on device level. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 669-675.	1.8	14

#	ARTICLE	IF	CITATIONS
163	Optical properties of silicon nanocrystals covered by periodic array of gold nanowires. Physical Review B, 2016, 93, .	3.2	14
164	Er doping of nanocrystalline-Si/SiO <sub>2</sub> superlattices. Thin Solid Films, 2001, 397, 211-215.	1.8	13
165	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.	6.7	13
166	Photoexcited charge carrier dynamics in silicon nanocrystal/SiO <sub>2</sub> superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 177-182.	2.7	13
167	Structural parameters effect on the electrical and electroluminescence properties of silicon nanocrystals/SiO <sub>2</sub> superlattices. Nanotechnology, 2015, 26, 185704.	2.6	13
168	Interplay of bimolecular and Auger recombination in photoexcited carrier dynamics in silicon nanocrystal/silicon dioxide superlattices. Scientific Reports, 2018, 8, 1703.	3.3	13
169	The formation of germanium nanocrystals by thermal annealing of SiO <sub>x</sub> : H/GeO <sub>x</sub> : H multilayers. Physica Status Solidi (B): Basic Research, 1996, 193, 375-389.	1.5	12
170	Confinement effects in crystallization and Er doping of Si nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 245-251.	2.7	12
171	Silicon nanocrystals prepared by plasma enhanced chemical vapor deposition: Importance of parasitic oxidation for third generation photovoltaic applications. Applied Physics Letters, 2012, 101, 193103.	3.3	12
172	Gibbs free energy and equilibrium states in the Si/Si oxide systems. Journal of Physics Condensed Matter, 2012, 24, 385403.	1.8	12
173	Detection of real-time dynamics of drug-target interactions by ultralong nanowalls. Lab on A Chip, 2013, 13, 4173.	6.0	12
174	Large-scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker. Advanced Functional Materials, 2013, 23, 191-197.	14.9	12
175	Formation of size-controlled and luminescent Si nanocrystals from SiO <sub>x</sub> N <sub>y</sub> /Si <sub>3</sub> N <sub>4</sub> hetero-superlattices. Journal of Applied Physics, 2015, 117, 175303.	2.5	12
176	Ultra-long zinc oxide nanowires and boron doping based on ionic liquid assisted thermal chemical vapor deposition growth. Nanoscale, 2015, 7, 92-97.	5.6	12
177	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, .	2.1	12
178	Photoluminescence dynamics and quantum yield of intrinsically conductive ZnO from atomic layer deposition. Journal of Luminescence, 2018, 201, 85-89.	3.1	12
179	<i>In situ</i> approach to fabricate heterojunction Cu-ZnO nanostructures for efficient photocatalytic reactions. New Journal of Chemistry, 2020, 44, 19742-19752.	2.8	12
180	Ge nanocrystals with a sharp size distribution: A detailed study of the crystallization of a-Si <sub>1-x</sub> O <sub>x</sub> Ge <sub>y</sub> alloy films. Journal of Non-Crystalline Solids, 1996, 198-200, 919-922.	3.1	11

#	ARTICLE	IF	CITATIONS
181	Birefringence in optical waveguides made by silicon nanocrystal superlattices. Applied Physics Letters, 2004, 85, 1268-1270.	3.3	11
182	Defect engineering of Si nanocrystal interfaces. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2449-2454.	1.8	11
183	Deep-level emission in ZnO nanowires and bulk crystals: Excitation-intensity dependence versus crystalline quality. Journal of Applied Physics, 2014, 115, 233516.	2.5	11
184	Charge transport in silicon nanocrystal superlattices in the terahertz regime. Physical Review B, 2015, 91, .	3.2	11
185	Preparation of a-GeOx:H alloys: Vibrational, optical, and structural properties. Physical Review B, 1995, 52, 14018-14024.	3.2	10
186	Size and density control of Si-nanocrystals realized by SiOx/SiO2 superlattice. Journal of Luminescence, 2007, 122-123, 750-752.	3.1	10
187	Atom probe tomography of size-controlled phosphorus doped silicon nanocrystals. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600376.	2.4	10
188	Modulation of carrier density in ZnO nanowires without impurity doping. Applied Physics Letters, 2010, 96, 123110.	3.3	9
189	Engineered High Aspect Ratio Vertical Nanotubes as a Model System for the Investigation of Catalytic Methanol Synthesis Over Cu/ZnO. ACS Applied Materials & Interfaces, 2014, 6, 1576-1582.	8.0	9
190	Optical emission from $\text{SiO}_2$ -embedded silicon nanocrystals: A high-pressure Raman and photoluminescence study. Physical Review B, 2015, 92, .	3.2	9
191	Changes of the absorption cross section of Si nanocrystals with temperature and distance. Beilstein Journal of Nanotechnology, 2017, 8, 2315-2323.	2.8	9
192	Effect of $\text{Si}_3\text{N}_4$ -Mediated Inversion Layer on the Electroluminescence Properties of Silicon Nanocrystal Superlattices. Advanced Electronic Materials, 2018, 4, 1700666.	5.1	9
193	X-ray Fine Structure Investigation of Germanium Nanoclusters. Journal of Applied Crystallography, 1998, 31, 589-593.	4.5	8
194	Nanocharacterization of Semiconductors by Scanning Photoluminescence Microscopy. Solid State Phenomena, 1998, 63-64, 151-158.	0.3	8
195	Room temperature luminescence of Er doped nc-Si/SiO2 superlattices. Journal of Non-Crystalline Solids, 2000, 266-269, 608-613.	3.1	8
196	Birefringence characterization of mono-dispersed silicon nanocrystals planar waveguides. Optical Materials, 2005, 27, 763-768.	3.6	8
197	Near-interface Si substrate 3d metal contamination during atomic layer deposition processing detected by electron spin resonance. Journal of Applied Physics, 2012, 111, .	2.5	8
198	Silicon nanocrystals-based electroluminescent resistive switching device. Journal of Applied Physics, 2019, 126, .	2.5	8

#	ARTICLE	IF	CITATIONS
199	Influence of Al <sub>2</sub> O <sub>3</sub> Nanoparticle Addition on a UV Cured Polyacrylate for 3D Inkjet Printing. <i>Polymers</i> , 2019, 11, 633.	4.5	8
200	On the origin of blue light emission from Ge-nanocrystals containing a-SiO <sub>x</sub> films. <i>Superlattices and Microstructures</i> , 1998, 23, 349-354.	3.1	7
201	Spatially Resolved Imaging of the Spectral Emission Characteristic of an InGaN/GaN-Multi Quantum Well- Light-Emitting Diode by Scanning Electroluminescence Microscopy. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 2414-2416.	1.5	7
202	Fabrication of micron-sized tetrahedra by SiO <sub>2</sub> micromachining and retraction edge lithography. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 085032.	2.6	7
203	Quantum behavior of terahertz photoconductivity in silicon nanocrystals networks. <i>Physical Review B</i> , 2017, 95, .	3.2	7
204	Absence of free carriers in silicon nanocrystals grown from phosphorus- and boron-doped silicon-rich oxide and oxynitride. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1501-1511.	2.8	7
205	Extended View on the Vapor-Liquid-Solid Mechanism for Oxide Compound Nanowires: The Role of Oxygen, Solubility, and Carbothermal Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24407-24414.	3.1	7
206	Analysis of the Growth of Laterally Aligned SnO <sub>2</sub> Nanowires by Thermodynamic Considerations and Experiments. <i>Crystal Growth and Design</i> , 2021, 21, 191-199.	3.0	7
207	Epitaxial growth of highly textured ZnO thin films on Si using an AlN buffer layer by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, 032401.	2.1	7
208	The Preparation of Amorphous Si <sub>x</sub> Ge <sub>y</sub> O <sub>z</sub> Alloy Films by Sputtering. Preparation Conditions, Chemical Composition, and Vibrational Properties. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 189, 409-416.	1.5	6
209	Erbium Ion Luminescence of Silicon Nanocrystal Layers in a Silicon Dioxide Matrix Measured under Strong Optical Excitation. <i>Physics of the Solid State</i> , 2005, 47, 121.	0.6	6
210	Stimulated emission from ZnO nanorod arrays. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2514-2517.	0.8	6
211	Oxidation behaviour of carbon monoxide at the photostimulated surface of ZnO nanowires. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 305302.	2.8	6
212	Dielectrophoretic investigation of Bi <sub>2</sub> Te <sub>3</sub> nanowires—a microfabricated thermoelectric characterization platform for measuring the thermoelectric and structural properties of single nanowires. <i>Nanotechnology</i> , 2015, 26, 125707.	2.6	6
213	Modulation of the electroluminescence emission from ZnO/Si NCs/p-Si light-emitting devices via pulsed excitation. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	6
214	Enhanced defect luminescence due to fast Auger process in cuprous iodide structures produced by solvent/anti-solvent crystallization. <i>Journal of Luminescence</i> , 2020, 220, 116961.	3.1	6
215	Nanocrystalline Silicon/Amorphous Silicon Dioxide Superlattices. <i>Materials Research Society Symposia Proceedings</i> , 1997, 485, 49.	0.1	5
216	Semiconductor Nanowires and Nanotubes: From Fundamentals to Diverse Applications. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-2.	3.4	5

#	ARTICLE	IF	CITATIONS
217	Picosecond dynamics of photoexcited carriers in interacting silicon nanocrystals. Applied Surface Science, 2016, 377, 238-243.	6.1	5
218	Using HCl to Control Silver Dissolution in Metal-Assisted Chemical Etching of Silicon. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800135.	1.8	5
219	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.	1.8	5
220	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.	0.5	5
221	Crystallization in the limit of ultra thin layers- A new crystallization model. Materials Research Society Symposia Proceedings, 2000, 638, 1.	0.1	4
222	Photoluminescence properties of erbium-doped structures of silicon nanocrystals in silicon dioxide matrix. Journal of Non-Crystalline Solids, 2006, 352, 1192-1195.	3.1	4
223	Hot-phonon-induced indirect absorption in silicon nanocrystals. Journal of Applied Physics, 2013, 114, 173103.	2.5	4
224	Pathways of carrier recombination in Si/SiO <sub>2</sub> nanocrystal superlattices. Journal of Applied Physics, 2019, 126, 163101.	2.5	4
225	Dynamics of Stimulated Emission in Single ZnO Nanorod Resonators. Journal of the Korean Physical Society, 2008, 53, 2840-2843.	0.7	4
226	Si-doped luminescence gratings. Nuclear Instruments & Methods in Physics Research B, 2001, 181, 263-267.	1.4	3
227	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
228	Transition from freestanding SnO <sub>2</sub> nanowires to laterally aligned nanowires with a simulation-based experimental design. Beilstein Journal of Nanotechnology, 2020, 11, 843-853.	2.8	3
229	Effects of field enhanced charge transfer on the luminescence properties of Si/SiO <sub>2</sub> superlattices. Scientific Reports, 2022, 12, 2641.	3.3	3
230	Scanning Electroluminescence Microscopy: A Powerful Novel Characterization Tool for Light Emitting Diodes. Physica Status Solidi A, 1999, 176, 119-123.	1.7	2
231	Highly luminescent Si quantum dots: new ways for size, position, and density control. , 2002, 4808, 28.		2
232	Photoluminescence of erbium ions in heterostructures with silicon nanocrystals. Semiconductors, 2006, 40, 1193-1197.	0.5	2
233	Photovoltaic properties of silicon nanocrystals in silicon carbide. Proceedings of SPIE, 2012, , .	0.8	2
234	Characteristics of Hydrogen Effusion from the Si-H Bonds in Si Rich Silicon Oxynitride Films for Nanocrystalline Silicon Based Photovoltaic Applications. Advanced Materials Research, 0, 854, 69-74.	0.3	2

#	ARTICLE	IF	CITATIONS
235	Comment on "Thickness and temperature depending intermixing of SiO <sub>x</sub> /SiO <sub>2</sub> and SiO <sub>x</sub> Ny/SiO <sub>2</sub> superlattices: Experimental observation and thermodynamic modeling" [Appl. Phys. Lett. 108, 223102 (2016)]. Applied Physics Letters, 2016, 109, 166101.	3.3	2
236	Photoelectrical reading in ZnO/Si NCs/p-Si resistive switching devices. Applied Physics Letters, 2020, 116, 193503.	3.3	2
237	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
238	Low-power wavelength modulation in size-controlled Si nanocrystals using quantum confined Stark effect. AIP Advances, 2020, 10, 125315.	1.3	2
239	Blue Luminescence from SiO <sub>x</sub> Films Containing Ge Nanocrystals. Materials Research Society Symposia Proceedings, 1996, 452, 117.	0.1	1
240	Spatially Resolved Electroluminescence of InGaN-MQW-LEDs. Materials Research Society Symposia Proceedings, 1999, 595, 1.	0.1	1
241	Ge and Si nanocrystals "New ways to luminescence structures. , 1999, , 131-140.		1
242	Synthesis and size control of Si nanocrystals by SiO/SiO <sub>2</sub> superlattices and Er doping. Materials Research Society Symposia Proceedings, 2002, 737, 331.	0.1	1
243	Exciton photoluminescence and energy transfer in nanocrystalline Si/ Si dioxide superlattice structures. Materials Research Society Symposia Proceedings, 2003, 789, 81.	0.1	1
244	High-efficiency erbium ion luminescence in silicon nanocrystal systems. Physics of the Solid State, 2004, 46, 104-108.	0.6	1
245	Recycling of Silicon Carbide and Corn Starch as Binder Originating from Commercial Starch Consolidation. Materials Science Forum, 2005, 498-499, 425-429.	0.3	1
246	Inherent paramagnetic defects in layered nanocrystalline Si/SiO <sub>2</sub> superstructures. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 947-950.	2.7	1
247	From Ordered Arrays of Nanowires to Controlled Solid State Reactions. Advances in Solid State Physics, 2009, , 3-12.	0.8	1
248	Picosecond dynamics of photoexcited carriers in silicon nanocrystal/Si <sub>3</sub> N <sub>4</sub> superlattices: Presence of KO centers. Journal of Applied Physics, 2015, 117, 093101.	2.5	1
249	Si nanocrystals and nanocrystal interfaces studied by positron annihilation. Journal of Applied Physics, 2016, 120, 145302.	2.5	1
250	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.	6.2	1
251	Low-Temperature Physical Vapor Deposition and Electrical Characterization of Single-Crystalline Zn Nanowires. Crystal Growth and Design, 2021, 21, 5760-5764.	3.0	1
252	Thin A-SiO <sub>x</sub> HyAlloy Films Showing Visible Luminescence Prepared by DC-Magnetron Sputtering with Water Vapor as Oxygen Source. Materials Research Society Symposia Proceedings, 1993, 297, 753.	0.1	0

#	ARTICLE	IF	CITATIONS
253	Defect Luminescence in Films Containing Ge and GeO <sub>2</sub> Nanocrystals. Materials Research Society Symposia Proceedings, 1997, 467, 379.	0.1	0
254	Si based highly luminescent photonic structures. , 0, , .		0
255	Active control of position, density, and size for Si quantum dots for nanophotonic applications. , 2002, 4654, 110.		0
256	Photoluminescence of Er <sup>3+</sup> ions in layers of quasi-ordered silicon nanocrystals in a silicon dioxide matrix. Journal of Experimental and Theoretical Physics, 2003, 97, 1123-1130.	0.9	0
257	Size Controlled Si Nanocrystals. Advances in Solid State Physics, 2004, , 351-362.	0.8	0
258	Hexagonal-arranged ZnO Nanowire Arrays by Using Au Nanohole Membranes as Fabrication Template. Materials Research Society Symposia Proceedings, 2004, 849, 154.	0.1	0
259	Periodically arranged point defects in a 2D photonic crystal: the photonic analogue to a doped semiconductor. , 2004, , .		0
260	Silicon Nanocrystals: Size Matters. ChemInform, 2005, 36, no.	0.0	0
261	<title>Light emission from erbium-doped nanocrystalline silicon/silicon dioxide layers under strong optical excitation</title>. , 2005, , .		0
262	Metal nanotube membranes and their lithographic applications. , 2006, , .		0
263	CONTROLLABLE CHARGE DENSITY IN THE Si NANOCRYSTALS NONVOLATILE MEMORY. Integrated Ferroelectrics, 2006, 78, 271-279.	0.7	0
264	Population Dynamics of Excitons in Silicon Nanocrystals Structures under Strong Optical Excitation. Advanced Materials Research, 2007, 31, 196-198.	0.3	0
265	Kontrollierte Hohlräume in der Nanowelt. Physik in Unserer Zeit, 2008, 39, 59-60.	0.0	0
266	Far-field observation of the radial profile of visible whispering-gallery modes in a single microdisk based on Si-nanocrystal/SiO <sub>2</sub> superlattices. Journal of Applied Physics, 2009, 106, 123102.	2.5	0
267	Ulrich M. Gärtner. MRS Bulletin, 2010, 35, 266-266.	3.5	0
268	Optoelectronic characterization of SiC with embedded Si nanocrystals as solar cell absorber material. , 2013, , .		0
269	Effect of temperature and excitation intensity on photoexcited charge carrier dynamics in Si-NCs/SiO <sub>2</sub> superlattices. Proceedings of SPIE, 2013, , .	0.8	0
270	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.	14.9	0



#	ARTICLE	IF	CITATIONS
271	Electrical and electroluminescence properties of silicon nanocrystals/SiO <sub>2</sub> superlattices. Proceedings of SPIE, 2014, , .	0.8	0
272	Rational Assembly of Superstructure Microparticles into Mosaic-Like Highly Oriented Monolayer for Glucose-Responsive Electrodes. Advanced Materials Interfaces, 2021, 8, 2100433.	3.7	0
273	Spatially Resolved Electroluminescence of InGaN-MQW-LEDs. MRS Internet Journal of Nitride Semiconductor Research, 2000, 5, 22-27.	1.0	0
274	LIGHT-EMITTING PROPERTIES OF ERBIUM-DOPED STRUCTURES OF SILICON NANOCRYSTALS. , 2007, , .		0
275	Photoluminescence Properties of Er-Implanted SiO/SiO <sub>2</sub> Multilayered Structures with Amorphous or Crystalline Si Nanoclusters. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 491-494.	0.5	0
276	Einführung in die Festkörper- und Nanophysik. , 2019, , 123-129.		0
277	(Invited) Size Controlled Silicon Quantum Dots: Basic Properties and Electronic Applications. ECS Meeting Abstracts, 2020, MA2020-01, 1056-1056.	0.0	0
278	(Invited) Size Controlled Silicon Quantum Dots: Understanding Basic Properties and Electronic Applications. ECS Meeting Abstracts, 2022, MA2022-01, 1077-1077.	0.0	0