

Vladimir Svrcek

List of Publications by Year in descending order

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130
papers

3,588
citations

147801

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149698

56
g-index

132
all docs

132
docs citations

132
times ranked

3756
citing authors

#	ARTICLE	IF	CITATIONS
1	Modifying the solar spectrum to enhance silicon solar cell efficiency—An overview of available materials. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 238-249.	6.2	527
2	Plasma—Liquid Interactions at Atmospheric Pressure for Nanomaterials Synthesis and Surface Engineering. <i>Plasma Processes and Polymers</i> , 2012, 9, 1074-1085.	3.0	227
3	Silicon nanocrystals as light converter for solar cells. <i>Thin Solid Films</i> , 2004, 451-452, 384-388.	1.8	169
4	Blue luminescent silicon nanocrystals prepared by ns pulsed laser ablation in water. <i>Applied Physics Letters</i> , 2006, 89, 213113.	3.3	125
5	Self-organized nanostructures on atmospheric microplasma exposed surfaces. <i>Applied Physics Letters</i> , 2007, 91, 183111.	3.3	91
6	Understanding surface chemistry during MAPbI ₃ spray deposition and its effect on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 902-916.	5.5	89
7	Environmentally friendly nitrogen-doped carbon quantum dots for next generation solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1611-1619.	4.9	81
8	Optical gain in porous silicon grains embedded in sol-gel derived SiO ₂ matrix under femtosecond excitation. <i>Applied Physics Letters</i> , 2004, 84, 3280-3282.	3.3	76
9	Ex situ prepared Si nanocrystals embedded in silica glass: Formation and characterization. <i>Journal of Applied Physics</i> , 2004, 95, 3158-3163.	2.5	76
10	Silicon Nanocrystals in Liquid Media: Optical Properties and Surface Stabilization by Microplasma-Induced Non-Equilibrium Liquid Chemistry. <i>Advanced Functional Materials</i> , 2012, 22, 954-964.	14.9	72
11	Ambient-stable blue luminescent silicon nanocrystals prepared by nanosecond-pulsed laser ablation in water. <i>Optics Express</i> , 2009, 17, 520.	3.4	71
12	The importance of surface states in N-doped carbon quantum dots. <i>Carbon</i> , 2021, 183, 1-11.	10.3	71
13	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5084-5093.	3.1	67
14	Surface-engineered silicon nanocrystals. <i>Nanoscale</i> , 2013, 5, 1385.	5.6	67
15	Basic features of transport in microcrystalline silicon. <i>Solar Energy Materials and Solar Cells</i> , 2003, 78, 493-512.	6.2	63
16	Microplasma-induced surface engineering of silicon nanocrystals in colloidal dispersion. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	63
17	Low-Temperature Atmospheric Pressure Plasma Processes for “Green” Third Generation Photovoltaics. <i>Plasma Processes and Polymers</i> , 2016, 13, 70-90.	3.0	62
18	Charge carrier localised in zero-dimensional (CH ₃ NH ₃) ₃ Bi ₂ I ₉ clusters. <i>Nature Communications</i> , 2017, 8, 170.	12.8	62

#	ARTICLE	IF	CITATIONS
19	Ultra-small CuO nanoparticles with tailored energy band diagram synthesized by a hybrid plasma-liquid process. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600224.	3.0	55
20	Silicon-based quantum dots: synthesis, surface and composition tuning with atmospheric pressure plasmas. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 314002.	2.8	54
21	Self-organized carbon connections between catalyst particles on a silicon surface exposed to atmospheric-pressure Ar+CH ₄ microplasmas. <i>Carbon</i> , 2009, 47, 2379-2390.	10.3	46
22	Synthesis and surface engineering of nanomaterials by atmospheric-pressure microplasmas. <i>EPJ Applied Physics</i> , 2011, 56, 24020.	0.7	42
23	Model of transport in microcrystalline silicon. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 355-359.	3.1	41
24	Ultra-small photoluminescent silicon-carbide nanocrystals by atmospheric-pressure plasmas. <i>Nanoscale</i> , 2016, 8, 17141-17149.	5.6	41
25	A hybrid heterojunction based on fullerenes and surfactant-free, self-assembled, closely packed silicon nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 415402.	2.8	40
26	A silicon nanocrystal/polymer nanocomposite as a down-conversion layer in organic and hybrid solar cells. <i>Nanoscale</i> , 2015, 7, 11566-11574.	5.6	37
27	Fabrication of multi-level carbon nanotube arrays with adjustable patterns. <i>Nanoscale</i> , 2012, 4, 278-283.	5.6	36
28	Silicon thin film solar cells deposited under 80°C. <i>Thin Solid Films</i> , 2001, 383, 129-131.	1.8	35
29	Improved Optoelectronic Properties of Silicon Nanocrystals/Polymer Nanocomposites by Microplasma-Induced Liquid Chemistry. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23198-23207.	3.1	35
30	Photoluminescence properties of sol-gel derived SiO ₂ layers doped with porous silicon. <i>Materials Science and Engineering C</i> , 2002, 19, 233-236.	7.3	33
31	Silicon Nanocrystals and Semiconducting Single-Walled Carbon Nanotubes Applied to Photovoltaic Cells. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1646-1650.	4.6	32
32	Transport anisotropy in microcrystalline silicon studied by measurement of ambipolar diffusion length. <i>Journal of Applied Physics</i> , 2001, 89, 1800.	2.5	31
33	Unaggregated silicon nanocrystals obtained by ball milling. <i>Journal of Crystal Growth</i> , 2005, 275, 589-597.	1.5	30
34	Photosensitive self-assembled nanoarchitectures containing surfactant-free Si nanocrystals produced by laser fragmentation in water. <i>Chemical Physics Letters</i> , 2009, 478, 224-229.	2.6	29
35	Constructing honeycomb micropatterns on nonplanar substrates with high glass transition temperature polymers. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 99-104.	9.4	27
36	Top-down prepared silicon nanocrystals and a conjugated polymer-based bulk heterojunction: Optoelectronic and photovoltaic applications. <i>Acta Materialia</i> , 2009, 57, 5986-5995.	7.9	26

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37	Dramatic Enhancement of Photoluminescence Quantum Yields for Surface-Engineered Si Nanocrystals within the Solar Spectrum. <i>Advanced Functional Materials</i> , 2013, 23, 6051-6058.	14.9	26
38	Aging effect on blue luminescent silicon nanocrystals prepared by pulsed laser ablation of silicon wafer in de-ionized water. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 133-139.	2.2	25
39	Zero-dimensional methylammonium iodo bismuthate solar cells and synergistic interactions with silicon nanocrystals. <i>Nanoscale</i> , 2017, 9, 18759-18771.	5.6	25
40	Microplasma-Induce Liquid Chemistry for Stabilizing of Silicon Nanocrystals Optical Properties in Water. <i>Plasma Processes and Polymers</i> , 2014, 11, 158-163.	3.0	24
41	Environmentally Friendly Processing Technology for Engineering Silicon Nanocrystals in Water with Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18822-18830.	3.1	23
42	Size-dependent stability of ultra-small $\pm/\sqrt{2}$ -phase tin nanocrystals synthesized by microplasma. <i>Nature Communications</i> , 2019, 10, 817.	12.8	23
43	Improved transport and photostability of poly(methoxy-ethylexyloxy-phenylenevinilene) polymer thin films by boron doped freestanding silicon nanocrystals. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	22
44	Type-I alignment in MAPbI ₃ based solar devices with doped-silicon nanocrystals. <i>Nano Energy</i> , 2018, 50, 245-255.	16.0	22
45	Silicon nanocrystals formed by pulsed laser-induced fragmentation of electrochemically etched Si micrograins. <i>Chemical Physics Letters</i> , 2006, 429, 483-487.	2.6	21
46	Energy band diagram of device-grade silicon nanocrystals. <i>Nanoscale</i> , 2016, 8, 6623-6628.	5.6	21
47	Charge transport in microcrystalline Si – the specific features. <i>Solar Energy Materials and Solar Cells</i> , 2001, 66, 61-71.	6.2	20
48	The Interplay of Quantum Confinement and Hydrogenation in Amorphous Silicon Quantum Dots. <i>Advanced Materials</i> , 2015, 27, 8011-8016.	21.0	20
49	Temperature-dependent photoluminescence of surface-engineered silicon nanocrystals. <i>Scientific Reports</i> , 2016, 6, 27727.	3.3	20
50	Aggregation of Silicon Nanocrystals Prepared by Laser Ablation in Deionized Water. <i>Journal of Laser Micro Nanoengineering</i> , 2007, 2, 15-20.	0.1	20
51	Semiconducting quantum confined silicon-tin alloyed nanocrystals prepared by ns pulsed laser ablation in water. <i>Nanoscale</i> , 2013, 5, 6725.	5.6	19
52	Nanostructured Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1481.	4.1	19
53	Microcrystalline Silicon - Relation between Transport and Microstructure. <i>Solid State Phenomena</i> , 2001, 80-81, 213-224.	0.3	18
54	Amorphous/microcrystalline silicon superlattices – the chance to control isotropy and other transport properties. <i>Applied Physics Letters</i> , 2001, 79, 2540-2542.	3.3	18

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55	Blue luminescent silicon nanocrystals prepared by short pulsed laser ablation in liquid media. <i>Applied Surface Science</i> , 2009, 255, 9643-9646.	6.1	18
56	Carbon nanotube growth activated by quantum-confined silicon nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 122001.	2.8	18
57	Studies of silicon nanocrystals in phosphorus rich SiO ₂ matrices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 420-423.	2.7	17
58	Filling of single silicon nanocrystals within multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 88, 033112.	3.3	17
59	Blue luminescent silicon nanocrystals prepared by nanosecond laser ablation and stabilized in electronically compatible spin on glasses. <i>Journal of Applied Physics</i> , 2008, 103, 023101.	2.5	17
60	Photoelectric Properties of Silicon Nanocrystals/P3HT Bulk-Heterojunction Ordered in Titanium Dioxide Nanotube Arrays. <i>Nanoscale Research Letters</i> , 2009, 4, 1389-94.	5.7	17
61	Synthesis of nanocrystals by discharges in liquid nitrogen from Si-Sn sintered electrode. <i>Scientific Reports</i> , 2015, 5, 17477.	3.3	16
62	Varying Surface Chemistries for p-Doped and n-Doped Silicon Nanocrystals and Impact on Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28207-28214.	8.0	16
63	Ordered titanium dioxide nanotubes filled with photoluminescent surfactant-free silicon nanocrystals. <i>Nanotechnology</i> , 2010, 21, 215203.	2.6	15
64	Bandgap Engineering in OH-Functionalized Silicon Nanocrystals: Interplay between Surface Functionalization and Quantum Confinement. <i>Advanced Functional Materials</i> , 2017, 27, 1701898.	14.9	15
65	Semiconducting silicon-tin alloy nanocrystals with direct bandgap behavior for photovoltaic devices. <i>Materials Today Energy</i> , 2018, 7, 87-97.	4.7	15
66	Microplasma-synthesized ultra-small NiO nanocrystals, a ubiquitous hole transport material. <i>Nanoscale Advances</i> , 2019, 1, 4915-4925.	4.6	15
67	Filling and capping multiwall carbon nanotubes with silicon nanocrystals dispersed in SiO ₂ -based spin on glass. <i>Journal of Applied Physics</i> , 2006, 99, 064306.	2.5	14
68	Enhancement of hybrid solar cell performance by polythieno [3,4-b]thiophenebenzodithiophene and microplasma-induced surface engineering of silicon nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	14
69	Luminescent properties of doped freestanding silicon nanocrystals embedded in MEH-PPV. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 774-778.	6.2	13
70	Tailoring of hybrid silicon nanocrystal-based bulk heterojunction photovoltaic properties upon nanocrystal laser processing in liquid medium. <i>Acta Materialia</i> , 2011, 59, 764-773.	7.9	13
71	Photoluminescence studies from silicon nanocrystals embedded in spin on glass thin films. <i>Journal of Luminescence</i> , 2003, 101, 269-274.	3.1	12
72	Oxidation and reduction of nanodiamond particles in colloidal solutions by laser irradiation or radio-frequency plasma treatment. <i>Vibrational Spectroscopy</i> , 2016, 83, 108-114.	2.2	12

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73	Clustering/declustering of silicon nanocrystals in spin-on glass solutions. <i>Semiconductor Science and Technology</i> , 2005, 20, 314-319.	2.0	11
74	Stable ultrathin surfactant-free surface-engineered silicon nanocrystal solar cells deposited at room temperature. <i>Energy Science and Engineering</i> , 2017, 5, 184-193.	4.0	11
75	Controlling the Energy-Level Alignment of Silicon Carbide Nanocrystals by Combining Surface Chemistry with Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1721-1728.	4.6	11
76	Importance of the transport isotropy in $\frac{1}{4}$ c-Si:H thin films for solar cells deposited at low substrate temperatures. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 395-399.	3.1	9
77	Monitoring the chemical vapor deposition growth of multiwalled carbon nanotubes by tapered element oscillating microbalance. <i>Journal of Chemical Physics</i> , 2006, 124, 184705.	3.0	9
78	Fabrication of Filled Carbon Nanotubes with Fresh Silicon Nanocrystals Produced In Situ by Nanosecond Pulsed Laser Processing in Environmentally Friendly Solutions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13181-13186.	3.1	9
79	Formation of Single-Crystal Spherical Particle Architectures by Plasma-Induced Low-Temperature Coalescence of Silicon Nanocrystals Synthesized by Laser Ablation in Water. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6235-6242.	3.1	9
80	Built-In Charges and Photoluminescence Stability of 3D Surface-Engineered Silicon Nanocrystals by a Nanosecond Laser and a Direct Current Microplasma. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10939-10948.	3.1	9
81	Photoluminescence of a superficial Si nanolayer and an example of its use. <i>Applied Physics Letters</i> , 2003, 82, 4056-4058.	3.3	8
82	Nanocrystalline silicon and carbon nanotube nanocomposites prepared by pulsed laser fragmentation. <i>Pure and Applied Chemistry</i> , 2008, 80, 2513-2520.	1.9	8
83	Microscopic Electrical Conductivity of Nanodiamonds after Thermal and Plasma Treatments. <i>MRS Advances</i> , 2016, 1, 1105-1111.	0.9	8
84	Significant Carrier Extraction Enhancement at the Interface of an InN/p-GaN Heterojunction under Reverse Bias Voltage. <i>Nanomaterials</i> , 2018, 8, 1039.	4.1	6
85	In Situ Grown Nanocrystalline Si Recombination Junction Layers for Efficient Perovskite/Si Monolithic Tandem Solar Cells: Toward a Simpler Multijunction Architecture. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33505-33514.	8.0	6
86	A new approach to surface photovoltage measurements on hydrogenated microcrystalline silicon layers. <i>Philosophical Magazine Letters</i> , 2001, 81, 405-410.	1.2	5
87	Surface photovoltage measurements in $\frac{1}{4}$ c-Si:H: Manifestation of the bottom space charge region. <i>Journal of Applied Physics</i> , 2002, 92, 2323-2329.	2.5	5
88	Encapsulation of fresh silicon nanocrystals in carbon nanotube cavity. <i>Materials Letters</i> , 2008, 62, 2578-2580.	2.6	5
89	In Situ Monitoring the Thermal Dependence of the Growth of Carbon Nanotubes by Chemical Vapor Deposition Investigated by Tapered Element Oscillating Microbalance. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14879-14892.	3.1	5
90	Excitation energy transfer in conjugated polymer/silicon nanocrystal-based bulk heterojunctions. <i>Pure and Applied Chemistry</i> , 2010, 82, 2121-2135.	1.9	5

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91	Tuning the Bandgap Character of Quantum-Confined Si-Sn Alloyed Nanocrystals. <i>Advanced Functional Materials</i> , 2020, 30, 1907210.	14.9	5
92	Detection of bottom depletion layer and its influence on surface photovoltage measurement in $\frac{1}{4}$ c-Si:H. <i>Thin Solid Films</i> , 2001, 383, 271-273.	1.8	4
93	Connection of silicon nanocrystals (Si-nc) with multi-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 153-157.	2.3	4
94	Colloidal silicon nanocrystallites for low-cost solar cell development. <i>Nano-Micro Letters</i> , 2009, 1, 40-44.	27.0	4
95	Blue Light Emitting Silicon Nanocrystals Prepared by Laser Ablation of Doped Si Wafers in Water. <i>Journal of Laser Micro Nanoengineering</i> , 2010, 5, 103-108.	0.1	4
96	Electronic interactions of silicon nanocrystals and nanocarbon materials: Hybrid solar cells. <i>Pure and Applied Chemistry</i> , 2012, 84, 2629-2639.	1.9	3
97	Integration of Surfactant-Free Silicon Nanocrystal in Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE25.	1.5	3
98	Impact of Silicon Nanocrystal Oxidation on the Nonmetallic Growth of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19012-19023.	8.0	3
99	(Invited) Microplasmas Technologies for Engineering of Silicon Based Quantum Dot Solar Cells. <i>ECS Transactions</i> , 2017, 77, 1-8.	0.5	3
100	Bridging energy bands to the crystalline and amorphous states of Si QDs. <i>Faraday Discussions</i> , 2020, 222, 390-404.	3.2	3
101	Oscillating Antiferromagnetism of Ultrathin EuTe Layers. <i>Acta Physica Polonica A</i> , 1997, 92, 1051-1054.	0.5	3
102	Luminescent Colloidal Silicon Nanocrystals Prepared by Nanoseconds Laser Fragmentation and Laser Ablation in Water. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1066, 1.	0.1	2
103	Hybrid Optoelectronic and Photovoltaic Materials based on Silicon Nanocrystals and Conjugated Polymers. , 2011, , .		2
104	Performance and stability gain in zero-dimensional perovskite solar cells after >2 years when hybridized with silicon nanocrystals. <i>Nanoscale Advances</i> , 2019, 1, 4683-4687.	4.6	2
105	Computer-based methods for measurement, recording and modeling vessel responses in vitro: A pilot study with noradrenaline. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , 2003, 25, 441.	0.8	2
106	Silicon Nanocrystals Surface Engineering by Nanosecond Laser Processing in Water. <i>The Review of Laser Engineering</i> , 2012, 40, 128.	0.0	2
107	Integration of Surfactant-Free Silicon Nanocrystal in Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE25.	1.5	2
108	Colloidal blue and red luminescent silicon nanocrystals and their elaboration in pure and doped spin on glasses. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 293-296.	2.7	1

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109	Phosphorous and Boron Doped Colloidal Silicon Nanocrystals in Conjugated Co-polymers. Materials Research Society Symposia Proceedings, 2008, 1102, 1.	0.1	1
110	Bulk-heterojunction Based on Blending of Red and Blue Luminescent Silicon Nanocrystals and P3HT Polymer. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	1
111	Three-Dimensional Femtosecond Laser Fabrication. ECS Transactions, 2009, 16, 57-63.	0.5	1
112	Carriers multiplication in neighboring surfactant-free silicon nanocrystals produced by 3D-surface engineering in liquid medium.. , 2012, , .		1
113	Enhancement of polymer solar cell performance under low-concentrated sunlight by 3D surface-engineered silicon nanocrystals. , 2013, , .		1
114	Silicon Nanocrystal/Nanocarbon Hybrids. , 2016, , 543-561.		1
115	Carrier extraction from metallic perovskite oxide nanoparticles. Nanoscale, 2021, 13, 12271-12278.	5.6	1
116	(Invited) Electronic and Optical Properties of Quantum-Confined Nanoparticles. ECS Transactions, 2021, 102, 67-73.	0.5	1
117	Thin silicon films deposited at low substrate temperatures studied by surface photovoltage technique. Thin Solid Films, 2004, 451-452, 408-412.	1.8	0
118	Fuctionalization of single silicon nanocrystals by connecting with multiwalled carbon nanotubes. AIP Conference Proceedings, 2005, , .	0.4	0
119	Wiring and introduction of single silicon nanocrystals into multi-walled carbon nanotubes. Materials Research Society Symposia Proceedings, 2005, 862, 451.	0.1	0
120	Transport and stability of doped freestanding silicon nanocrystals and MEH-PPV blends. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
121	Bulk-heterojunction performance influenced by polymer structure and silicon nanocrystals micrograins doping. , 2009, , .		0
122	Filtering and Assembly of Si Nanocrystals/Conjugated Polymer Blend with Reduced Oxygen Penetration. Journal of the Electrochemical Society, 2010, 157, K194.	2.9	0
123	Enhanced photovoltaic effect of nanosecond-laser produced silicon nanocrystals embedded into TiO ₂ nanotubes. , 2010, , .		0
124	Silicon nanocrystal surface engineering and their electronic interaction with carbon based materials. , 2011, , .		0
125	Surface-engineered silicon nanocrystals as high energy photons downshifters for organic and hybrid solar cells. , 2014, , .		0
126	Zero-dimensional perovskite-like (CH ₃ NH ₃) ₃ Bi ₂ I ₉ thin films for photovoltaics. , 2018, , .		0

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127	Silicon-Tin Alloyed Nanocrystals by Femtosecond Laser Plasma. ECS Transactions, 2021, 102, 19-23.	0.5	0
128	Room temperature photoluminescence of the freestanding silicon nanocrystals. Transactions of the Materials Research Society of Japan, 2008, 33, 659-663.	0.2	0
129	Functionalization of Carbon Nanotubes with Luminescent Silicon Nanocrystals upon Nanosecond Laser Processing in Liquid Media. , 0, , .		0
130	Colloidal Silicon Nanocrystallites for Low-cost Solar Cell Development. Nano-Micro Letters, 2010, 1, .	27.0	0