Minoru Fujii

List of Publications by Year
in descending order

405	12,875	22153	36028
papers	citations	59 h-index	97 g-index

411	411	411	10210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	1.54 Î¼m photoluminescence of Er3+ doped into SiO2 films containing Si nanocrystals: Evidence for energy transfer from Si nanocrystals to Er3+. Applied Physics Letters, 1997, 71, 1198-1200.	3.3	526
2	Size-dependent photoluminescence from surface-oxidized Si nanocrystals in a weak confinement regime. Physical Review B, 2000, 62, 16820-16825.	3.2	312
3	Size-dependent near-infrared photoluminescence from Ge nanocrystals embedded inSiO2matrices. Physical Review B, 1998, 58, 7921-7925.	3.2	262
4	Evidence of oxygen vacancy induced room temperature ferromagnetism in solvothermally synthesized undoped TiO2 nanoribbons. Nanoscale, 2013, 5, 5476.	5.6	258
5	Growth of Ge Microcrystals in SiO2Thin Film Matrices: A Raman and Electron Microscopic Study. Japanese Journal of Applied Physics, 1991, 30, 687-694.	1.5	235
6	Silicon Nanocrystals: Photosensitizers for Oxygen Molecules. Advanced Materials, 2005, 17, 2531-2544.	21.0	225
7	Fast-Response and Flexible Nanocrystal-Based Humidity Sensor for Monitoring Human Respiration and Water Evaporation on Skin. ACS Sensors, 2017, 2, 828-833.	7.8	224
8	Photoluminescence from SiO2 films containing Si nanocrystals and Er: Effects of nanocrystalline size on the photoluminescence efficiency of Er3+. Journal of Applied Physics, 1998, 84, 4525-4531.	2.5	219
9	Raman identification of onion-like carbon. Carbon, 1998, 36, 821-826.	10.3	205
10	Low-frequency Raman scattering from small silver particles embedded inSiO2thin films. Physical Review B, 1991, 44, 6243-6248.	3.2	203
11	Structure and electronic properties of carbon onions. Journal of Chemical Physics, 2001, 114, 7477-7482.	3.0	202
12	Diamond nanoparticles to carbon onions transformation: X-ray diffraction studies. Carbon, 2002, 40, 1469-1474.	10.3	184
13	Size-dependent near-infrared photoluminescence spectra of Si nanocrystals embedded in SiO2 matrices. Solid State Communications, 1997, 102, 533-537.	1.9	179
14	Photoluminescence and free-electron absorption in heavily phosphorus-doped Si nanocrystals. Physical Review B, 2000, 62, 12625-12627.	3.2	168
15	Preparation and characterization of polymer thin films containing silver and silver sulfide nanoparticles. Thin Solid Films, 2000, 359, 55-60.	1.8	158
16	Hyperfine Structure of the Electron Spin Resonance of Phosphorus-Doped Si Nanocrystals. Physical Review Letters, 2002, 89, 206805.	7.8	153
17	Raman scattering from acoustic phonons confined in Si nanocrystals. Physical Review B, 1996, 54, R8373-R8376.	3.2	151
18	Raman scattering from quantum dots of Ge embedded in SiO2thin films. Applied Physics Letters, 1990, 57, 2692-2694.	3.3	140

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19	Control of photoluminescence properties of Si nanocrystals by simultaneously doping n- and p-type impurities. Applied Physics Letters, 2004, 85, 1158-1160.	3.3	135
20	Raman and surface-enhanced Raman scattering of a series of size-separated polyynes. Carbon, 2006, 44, 3168-3176.	10.3	133
21	Resonant Electronic Energy Transfer from Excitons Confined in Silicon Nanocrystals to Oxygen Molecules. Physical Review Letters, 2002, 89, 137401.	7.8	129
22	Codoping n- and p-Type Impurities in Colloidal Silicon Nanocrystals: Controlling Luminescence Energy from below Bulk Band Gap to Visible Range. Journal of Physical Chemistry C, 2013, 117, 11850-11857.	3.1	128
23	Below bulk-band-gap photoluminescence at room temperature from heavily P- and B-doped Si nanocrystals. Journal of Applied Physics, 2003, 94, 1990-1995.	2.5	125
24	Evidence for Ti Interstitial Induced Extended Visible Absorption and Near Infrared Photoluminescence from Undoped TiO₂ Nanoribbons: An In Situ Photoluminescence Study. Journal of Physical Chemistry C, 2013, 117, 23402-23411.	3.1	122
25	Resonant Raman scattering by breathing modes of metal nanoparticles. Journal of Chemical Physics, 2001, 115, 3444-3447.	3.0	119
26	Photoluminescence from Si nanocrystals dispersed in phosphosilicate glass thin films: Improvement of photoluminescence efficiency. Applied Physics Letters, 1999, 75, 184-186.	3.3	118
27	Magneto-Optical Kerr Effects of Yttrium-Iron Garnet Thin Films Incorporating Gold Nanoparticles. Physical Review Letters, 2006, 96, 167402.	7.8	117
28	Oxygen vacancy-mediated enhanced ferromagnetism in undoped and Fe-doped TiO₂nanoribbons. Journal Physics D: Applied Physics, 2014, 47, 235304.	2.8	115
29	Photoluminescence from B-doped Si nanocrystals. Journal of Applied Physics, 1998, 83, 7953-7957.	2.5	110
30	Microscopic origin of lattice contraction and expansion in undoped rutile TiO₂nanostructures. Journal Physics D: Applied Physics, 2014, 47, 215302.	2.8	110
31	Photoluminescence fromSi1â^'xGexalloy nanocrystals. Physical Review B, 2000, 61, 15988-15992.	3.2	108
32	Resonant excitation of Er3+ by the energy transfer from Si nanocrystals. Journal of Applied Physics, 2001, 90, 4761-4767.	2.5	106
33	All-Inorganic Near-Infrared Luminescent Colloidal Silicon Nanocrystals: High Dispersibility in Polar Liquid by Phosphorus and Boron Codoping. Journal of Physical Chemistry C, 2012, 116, 17969-17974.	3.1	102
34	Strong Ultraâ€Broadband Nearâ€Infrared Photoluminescence from Bismuthâ€Embedded Zeolites and Their Derivatives. Advanced Materials, 2009, 21, 3694-3698.	21.0	100
35	Enhancement of upconversion luminescence of Er doped Al2O3 films by Ag island films. Applied Physics Letters, 2008, 92, .	3.3	96
36	Electron energy-loss spectroscopy of carbon onions. Chemical Physics Letters, 1999, 305, 225-229.	2.6	94

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37	Control of Surface Migration of Gold Particles on Si Nanowires. Nano Letters, 2008, 8, 362-368.	9.1	89
38	Nanosecond Dynamics of the Near-Infrared Photoluminescence of Er-DopedSiO2Sensitized with Si Nanocrystals. Physical Review Letters, 2006, 97, 207401.	7.8	87
39	Efficient Dual-Modal NIR-to-NIR Emission of Rare Earth Ions Co-doped Nanocrystals for Biological Fluorescence Imaging. Journal of Physical Chemistry Letters, 2013, 4, 402-408.	4.6	85
40	Improvement in photoluminescence efficiency of SiO2 films containing Si nanocrystals by P doping: An electron spin resonance study. Journal of Applied Physics, 2000, 87, 1855-1857.	2.5	82
41	Coexistence of two different energy transfer processes in SiO2 films containing Si nanocrystals and Er. Journal of Applied Physics, 2004, 95, 272-280.	2.5	82
42	Giant birefringence in anisotropically nanostructured silicon. Optics Letters, 2001, 26, 1265.	3.3	76
43	Enhancement of 1.54-Î¼m emission from Er-doped sol-gel SiO2 films by Au nanoparticles doping. Journal of Applied Physics, 2005, 98, 024316.	2.5	73
44	All-inorganic water-dispersible silicon quantum dots: highly efficient near-infrared luminescence in a wide pH range. Nanoscale, 2014, 6, 122-126.	5.6	73
45	Photoluminescence from impurity codoped and compensated Si nanocrystals. Applied Physics Letters, 2005, 87, 211919.	3.3	72
46	A new and simple method for thin graphitic coating of magnetic-metal nanoparticles. Chemical Physics Letters, 2000, 316, 361-364.	2.6	71
47	Spectrally resolved electronic energy transfer from silicon nanocrystals to molecular oxygen mediated by direct electron exchange. Physical Review B, 2003, 68, .	3.2	70
48	Energy transfer in Er-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> with Si nanocrystals. Physical Review B, 2008, 78, .	3.2	70
49	Phosphorus and Boron Codoped Colloidal Silicon Nanocrystals with Inorganic Atomic Ligands. Journal of Physical Chemistry C, 2013, 117, 6807-6813.	3.1	70
50	Quantum Size Effects in Ge Microcrystals Embedded in SiO2Thin Films. Japanese Journal of Applied Physics, 1989, 28, L1464-L1466.	1.5	69
51	Size-Dependence of Acceptor and Donor Levels of Boron and Phosphorus Codoped Colloidal Silicon Nanocrystals. Nano Letters, 2016, 16, 2615-2620.	9.1	69
52	Size dependence of photoluminescence quantum efficiency of Si nanocrystals. Physical Review B, 2006, 73, .	3.2	68
53	Graphene-Assisted Controlled Growth of Highly Aligned ZnO Nanorods and Nanoribbons: Growth Mechanism and Photoluminescence Properties. ACS Applied Materials & Interfaces, 2014, 6, 377-387.	8.0	68
54	Upconversion Luminescence of Er and Yb Codoped NaYF₄ Nanoparticles with Metal Shells. Journal of Physical Chemistry C, 2013, 117, 1113-1120.	3.1	67

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55	Broadband Dielectricâ€“Metal Hybrid Nanoantenna: Silicon Nanoparticle on a Mirror. ACS Photonics, 2018, 5, 1986-1993.	6.6	67
56	Chemical reaction mediated by excited states of Si nanocrystalsâ€”Singlet oxygen formation in solution. Journal of Applied Physics, 2004, 95, 3689-3693.	2.5	65
57	All-inorganic colloidal silicon nanocrystalsâ€”surface modification by boron and phosphorus co-doping. Nanotechnology, 2016, 27, 262001.	2.6	65
58	Ultrabroad near-infrared photoluminescence from Bi5(AlCl4)3 crystal. Journal of Materials Chemistry, 2011, 21, 4060.	6.7	63
59	Atom Probe Tomography Analysis of Boron and/or Phosphorus Distribution in Doped Silicon Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 17845-17852.	3.1	62
60	Highly Fluorescent Silicaâ€Coated Bismuthâ€Doped Aluminosilicate Nanoparticles for Nearâ€Infrared Bioimaging. Small, 2011, 7, 199-203.	10.0	61
61	Optical extinction properties of carbon onions prepared from diamond nanoparticles. Physical Review B, 2002, 66, .	3.2	60
62	All-Painting Process To Produce Respiration Sensor Using Humidity-Sensitive Nanoparticle Film and Graphite Trace. ACS Sustainable Chemistry and Engineering, 2018, 6, 12217-12223.	6.7	57
63	Current transport properties of SiO2 films containing Ge nanocrystals. Journal of Applied Physics, 1998, 83, 1507-1512.	2.5	56
64	Mie Resonator Color Inks of Monodispersed and Perfectly Spherical Crystalline Silicon Nanoparticles. Advanced Optical Materials, 2020, 8, 2000033.	7.3	56
65	Origin of visible and near-infrared photoluminescence from chemically etched Si nanowires decorated with arbitrarily shaped Si nanocrystals. Nanotechnology, 2014, 25, 045703.	2.6	54
66	Ultrabroad near-infrared photoluminescence from ionic liquids containing subvalent bismuth. Optics Letters, 2011, 36, 100.	3.3	51
67	The single-band red upconversion luminescence from morphology and size controllable Er3+/Yb3+ doped MnF2 nanostructures. Journal of Materials Chemistry C, 2014, 2, 1736.	5.5	51
68	Distribution of Active Impurities in Single Silicon Nanowires. Nano Letters, 2008, 8, 2620-2624.	9.1	50
69	Quenching of photoluminescence from Si nanocrystals caused by boron doping. Solid State Communications, 1999, 109, 561-565.	1.9	49
70	Generation of singlet oxygen at room temperature mediated by energy transfer from photoexcited porousSi. Physical Review B, 2004, 70, .	3.2	49
71	Hopping conduction in SiO2 films containing C, Si, and Ge clusters. Applied Physics Letters, 1996, 68, 3749-3751.	3.3	48
72	Spatial coherence effect on the low-frequency Raman scattering from metallic nanoclusters. Physical Review B, 2001, 63, .	3.2	48

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73	Photodegradation of porous silicon induced by photogenerated singlet oxygen molecules. Applied Physics Letters, 2004, 85, 3590-3592.	3.3	48
74	Silicon nanocrystals with high boron and phosphorus concentration hydrophilic shellâ€"Raman scattering and X-ray photoelectron spectroscopic studies. Journal of Applied Physics, 2014, 115, 084301.	2.5	47
75	Upconversion Luminescence of Rare-Earth-Doped Y₂O₃ Nanoparticle with Metal Nano-Cap. Journal of Physical Chemistry C, 2015, 119, 1175-1179.	3.1	47
76	Quantitative Understanding of Charge-Transfer-Mediated Fe³⁺ Sensing and Fast Photoresponse by N-Doped Graphene Quantum Dots Decorated on Plasmonic Au Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 4755-4768.	8.0	47
77	Colloidal Dispersion of Subquarter Micrometer Silicon Spheres for Lowâ€Loss Antenna in Visible Regime. Advanced Optical Materials, 2017, 5, 1700332.	7.3	46
78	Hybridized Plasmonic Gap Mode of Gold Nanorod on Mirror Nanoantenna for Spectrally Tailored Fluorescence Enhancement. ACS Photonics, 2018, 5, 3421-3427.	6.6	46
79	Excitation of Nonradiating Anapoles in Dielectric Nanospheres. Physical Review Letters, 2020, 124, 097402.	7.8	45
80	MENP: an open-source MATLAB implementation of multipole expansion for nanophotonics. OSA Continuum, 2021, 4, 1640.	1.8	45
81	Plasmonic effects on strong exciton-photon coupling in metal-insulator-metal microcavities. Physical Review B, 2012, 86, .	3.2	44
82	Transformation of carbon onions to diamond by low-temperature heat treatment in air. Diamond and Related Materials, 2000, 9, 856-860.	3.9	41
83	Time-resolved photoluminescence studies of the energy transfer from excitons confined in Si nanocrystals to oxygen molecules. Physical Review B, 2005, 72, .	3.2	40
84	Silica Nanoparticle-Based Portable Respiration Sensor for Analysis of Respiration Rate, Pattern, and Phase During Exercise. , 2018, 2, 1-4.		40
85	Doping of B atoms into Si nanocrystals prepared by rf cosputtering. Solid State Communications, 1996, 100, 227-230.	1.9	38
86	Evidence for plasmonic hot electron injection induced superior visible light photocatalysis by g-C3N4 nanosheets decorated with Agâ€"TiO2(B) and Auâ€"TiO2(B) nanorods. Solar Energy Materials and Solar Cells, 2019, 201, 110053.	6.2	38
87	Infrared absorption inSiO2-Ge composite films: Influences of Ge microcrystals on the longitudinal-optical phonons inSiO2. Physical Review B, 1992, 46, 15930-15935.	3.2	37
88	Single-electron tunneling through Si nanocrystals dispersed in phosphosilicate glass thin films. Journal of Applied Physics, 1999, 86, 3199-3203.	2.5	37
89	Europium doping induced symmetry deviation and its impact on the second harmonic generation of doped ZnO nanowires. Nanotechnology, 2014, 25, 225202.	2.6	37
90	Spectrally resolved energy transfer from excitons in Si nanocrystals to Er ions. Physical Review B, 2005, 71, .	3.2	36

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91	Electron spin resonance studies of P and B codoped Si nanocrystals. Applied Physics Letters, 2008, 93, .	3.3	36
92	Superbroadband near-IR nano-optical source based on bismuth-doped high-silica nanocrystalline zeolites. Optics Letters, 2009, 34, 1219.	3.3	34
93	Surfactant-free solution-dispersible Si nanocrystals surface modification by impurity control. Optics Letters, 2011, 36, 4026.	3.3	34
94	Raman scattering by electron-hole excitations in silver nanocrystals. Physical Review B, 2001, 63, .	3.2	33
95	An investigation into second harmonic generation by Si-rich SiN_xthin films deposited by RF sputtering over a wide range of Si concentrations. Journal Physics D: Applied Physics, 2014, 47, 215101.	2.8	33
96	Silicon nanocrystal-noble metal hybrid nanoparticles. Nanoscale, 2016, 8, 10956-10962.	5.6	33
97	Formation of Co filled carbon nanocapsules by metal-template graphitization of diamond nanoparticles. Journal of Applied Physics, 2000, 88, 5452-5456.	2.5	32
98	Surface-enhanced Raman scattering from polyyne solutions. Chemical Physics Letters, 2006, 420, 166-170.	2.6	32
99	Raman Scattering Studies of Electrically Active Impurities in in Situ B-Doped Silicon Nanowires: Effects of Annealing and Oxidation. Journal of Physical Chemistry C, 2007, 111, 15160-15165.	3.1	32
100	Ultra-broad near-infrared photoluminescence from crystalline (K-crypt)2Bi2 containing [Bi2]2â^' dimers. Journal of Materials Chemistry, 2012, 22, 20175.	6.7	32
101	Synthesis of boron and phosphorus codoped all-inorganic colloidal silicon nanocrystals from hydrogen silsesquioxane. Nanoscale, 2014, 6, 12354-12359.	5.6	32
102	Effect of Ag/Au bilayer assisted etching on the strongly enhanced photoluminescence and visible light photocatalysis by Si nanowire arrays. Physical Chemistry Chemical Physics, 2016, 18, 7715-7727.	2.8	32
103	Mechanism of defect induced ferromagnetism in undoped and Cr doped TiO 2 nanorods/nanoribbons. Journal of Alloys and Compounds, 2016, 661, 331-344.	5.5	32
104	Modification of energy transfer from Si nanocrystals toEr3+near a Au thin film. Physical Review B, 2005, 72, .	3.2	31
105	Form birefringence of anisotropically nanostructured silicon. Physical Review B, 2005, 71, .	3.2	31
106	Laser ablation of diamond particles suspended in ethanol: Effective formation of long polyynes. Carbon, 2006, 44, 522-529.	10.3	31
107	The impact of doped silicon quantum dots on human osteoblasts. RSC Advances, 2016, 6, 63403-63413.	3.6	31
108	Triplex Glass Laminates with Silicon Quantum Dots for Luminescent Solar Concentrators. Solar Rrl, 2020, 4, 2000195.	5.8	31

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109	Enhancement and suppression of energy transfer from Si nanocrystals to Er ions through a control of the photonic mode density. Physical Review B, 2006, 74, .	3.2	30
110	Electron spin-resonance studies of conduction electrons in phosphorus-doped silicon nanocrystals. Journal of Applied Physics, 2007, 101, 033504.	2.5	30
111	Phosphorus and boron codoping of silicon nanocrystals by ion implantation: Photoluminescence properties. Physical Review B, 2012, 85, .	3.2	30
112	Decay dynamics of near-infrared photoluminescence from Ge nanocrystals. Applied Physics Letters, 1999, 74, 1558-1560.	3.3	29
113	Excitation of Nd3+ and Tm3+ by the energy transfer from Si nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 1038-1042.	2.7	29
114	Nonlinear optical properties of silicon nanoclusters/nanocrystals doped SiO2 films: Annealing temperature dependence. Journal of Applied Physics, 2010, 108, .	2.5	29
115	Photoluminescence from Bi5(GaCl4)3 molecular crystal. Dalton Transactions, 2012, 41, 11055.	3.3	29
116	Thin Films of Carbon Nanocapsules and Onion-Like Graphitic Particles Prepared by the Cosputtering Method. Japanese Journal of Applied Physics, 2000, 39, 6680-6683.	1.5	28
117	Surface plasmon polariton mediated photoluminescence from excitons in silicon nanocrystals. Applied Physics Letters, 2006, 89, 101907.	3.3	28
118	Effects of molecular orientation on surface-plasmon-coupled emission patterns. Applied Physics Letters, 2007, 91, .	3.3	28
119	Ferromagnetic resonance study of diluted Fe nanogranular films. Journal of Applied Physics, 2004, 95, 8194-8198.	2.5	27
120	Energy Transfer in Silicon Nanocrystal Solids Made from All-Inorganic Colloidal Silicon Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 2761-2766.	4.6	27
121	Resonant Energy Transfer in Si Nanocrystal Solids. Journal of Physical Chemistry C, 2015, 119, 19565-19570.	3.1	27
122	Size-dependent donor and acceptor states in codoped Si nanocrystals studied by scanning tunneling spectroscopy. Nanoscale, 2017, 9, 17884-17892.	5.6	27
123	Dynamics of photosensitized formation of singlet oxygen by porous silicon in aqueous solution. Journal of Applied Physics, 2006, 100, 124302.	2.5	26
124	Resonant photon tunneling via surface plasmon polaritons through one-dimensional metal-dielectric metamaterials. Optics Express, 2008, 16, 9942.	3.4	26
125	Plasmon-Enhanced Emission Rate of Silicon Nanocrystals in Gold Nanorod Composites. ACS Photonics, 2015, 2, 1298-1305.	6.6	26
126	Colloidal Solutions of Silicon Nanospheres toward All-Dielectric Optical Metafluids. Nano Letters, 2020, 20, 7737-7743.	9.1	26

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127	Coupled Toroidal Dipole Modes in Silicon Nanodisk Metasurface: Polarization Independent Narrow Band Absorption and Directional Emission. Advanced Optical Materials, 2020, 8, 2001148.	7.3	26
128	Formation of metal nanoparticles in silicon nanopores: Plasmon resonance studies. Applied Physics Letters, 2011, 98, 011912.	3.3	25
129	Visible emission from Ag⁺exchanged SOD zeolites. Nanoscale, 2015, 7, 15665-15671.	5.6	25
130	Visualizing a coreâ€“shell structure of heavily doped silicon quantum dots by electron microscopy using an atomically thin support film. Nanoscale, 2018, 10, 7357-7362.	5.6	25
131	Donorâ€“Acceptor Pair Recombination in Size-Purified Silicon Quantum Dots. Nano Letters, 2018, 18, 7282-7288.	9.1	25
132	Forward to Backward Scattering Ratio of Dielectricâ€“Metal Heterodimer Suspended in Almost Freeâ€Space. Advanced Optical Materials, 2019, 7, 1900591.	7.3	25
133	Surface plasmon resonances in gas-evaporated Ag small particles: Effects of aggregation. Solid State Communications, 1990, 76, 1067-1070.	1.9	24
134	Laser ablation of diamond nanoparticles suspended in solvent: synthesis of polyynes. Chemical Physics Letters, 2004, 395, 138-142.	2.6	24
135	Spectroscopic characterization of bismuth embedded Y zeolites. Applied Physics Letters, 2010, 97, .	3.3	24
136	Size confinement of Si nanocrystals in multinanolayer structures. Scientific Reports, 2015, 5, 17289.	3.3	24
137	Photoluminescence Enhancement of Silicon Quantum Dot Monolayer by Double Resonance Plasmonic Substrate. Journal of Physical Chemistry C, 2017, 121, 11609-11615.	3.1	24
138	Color Toning of Mie Resonant Silicon Nanoparticle Color Inks. ACS Applied Materials & Interfaces, 2021, 13, 13613-13619.	8.0	24
139	Magnetic Purcell Enhancement by Magnetic Quadrupole Resonance of Dielectric Nanosphere Antenna. ACS Photonics, 2021, 8, 1794-1800.	6.6	24
140	Breakdown of the k-conservation rule in Si1â^'xGex alloy nanocrystals: Resonant photoluminescence study. Journal of Applied Physics, 2000, 88, 5772-5776.	2.5	23
141	Enhancement of photoluminescence from excitons in silicon nanocrystals via coupling to surface plasmon polaritons. Journal of Applied Physics, 2007, 102, 023506.	2.5	23
142	Aluminum doped core-shell ZnO/ZnS nanowires: Doping and shell layer induced modification on structural and photoluminescence properties. Journal of Applied Physics, 2013, 114, 134307.	2.5	23
143	Reversible emission evolution from Ag activated zeolite Na-A upon dehydration/hydration. Applied Physics Letters, 2014, 105, .	3.3	23
144	Photoluminescence signature of resonant energy transfer in ZnO coated Si nanocrystals decorated on vertical Si nanowires array. Journal of Alloys and Compounds, 2015, 638, 419-428.	5.5	23

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145	Surface Structure and Current Transport Property of Boron and Phosphorus Co-Doped Silicon Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 195-200.	3.1	23
146	Silicon quantum dots with heavily boron and phosphorus codoped shell. Chemical Communications, 2018, 54, 4375-4389.	4.1	23
147	Excitation of intra-4f shell luminescence of Yb3+ by energy transfer from Si nanocrystals. Applied Physics Letters, 1998, 73, 3108-3110.	3.3	22
148	Defective Carbon Onions in Interstellar Space as the Origin of the Optical Extinction Bump at 217.5 Nanometers. Astrophysical Journal, 2004, 609, 220-224.	4.5	22
149	Acceptor-related low-energy photoluminescence from boron-doped Si nanocrystals. Journal of Applied Physics, 2011, 110, .	2.5	22
150	Size-Dependent Photocatalytic Activity of Colloidal Silicon Quantum Dot. Journal of Physical Chemistry C, 2018, 122, 1874-1880.	3.1	22
151	Selective excitation and enhancement of multipolar resonances in dielectric nanospheres using cylindrical vector beams. Journal of Applied Physics, 2020, 127, .	2.5	22
152	Broadband rugate filters based on porous silicon. Optical Materials, 2008, 31, 102-105.	3.6	21
153	Nonlinear optical properties of Si nanocrystals embedded in SiO2 prepared by a cosputtering method. Journal of Applied Physics, 2009, 105, .	2.5	21
154	Enhancement of photoluminescence from silicon nanocrystals by metal nanostructures made by nanosphere lithography. Journal of Applied Physics, 2009, 106, .	2.5	21
155	Efficient near-infrared luminescence and energy transfer in erbium/bismuth codoped zeolites. Optics Letters, 2010, 35, 1926.	3.3	21
156	Room-temperature below bulk-Si band gap photoluminescence from P and B co-doped and compensated Si nanocrystals with narrow size distributions. Journal of Luminescence, 2011, 131, 1066-1069.	3.1	21
157	Terahertz wire grid polarizer fabricated by imprinting porous silicon. Optics Letters, 2013, 38, 5067.	3.3	21
158	Surface Plasmon-Enhanced Luminescence of Silicon Quantum Dots in Gold Nanoparticle Composites. Journal of Physical Chemistry C, 2015, 119, 25108-25113.	3.1	21
159	Controlling Energy Transfer in Silicon Quantum Dot Assemblies Made from All-Inorganic Colloidal Silicon Quantum Dots. Journal of Physical Chemistry C, 2016, 120, 24469-24475.	3.1	21
160	Long-lived luminescence of colloidal silicon quantum dots for time-gated fluorescence imaging in the second near infrared window in biological tissue. Nanoscale, 2018, 10, 13902-13907.	5.6	21
161	Colloidal Mie Resonators for Allâ€Dielectric Metaoptics. Advanced Photonics Research, 2021, 2, 2000111.	3.6	21
162	Silicon Quantum Dot Supraparticles for Fluorescence Bioimaging. ACS Applied Nano Materials, 2020, 3, 6099-6107.	5.0	21

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163	Dichroic behavior of multilayer structures based on anisotropically nanostructured silicon. Journal of Applied Physics, 2002, 91, 6704.	2.5	20
164	Photoluminescence decay-dynamics of Si nanoparticles prepared by pulsed laser ablation. Applied Surface Science, 2002, 197-198, 635-638.	6.1	20
165	Mechanism of enhanced light emission from an emitting layer embedded in metal-insulator-metal structures. Physical Review B, 2010, 82, .	3.2	20
166	Green to red tunable upconversion fluorescence from Bi–Er–Yb codoped zeolites. Microporous and Mesoporous Materials, 2013, 173, 43-46.	4.4	20
167	Broadband enhancement of local density of states using silicon-compatible hyperbolic metamaterials. Applied Physics Letters, 2015, 106, 241105.	3.3	20
168	Fluorescence Enhancement and Spectral Shaping of Silicon Quantum Dot Monolayer by Plasmonic Gap Resonances. Journal of Physical Chemistry C, 2016, 120, 28795-28801.	3.1	20
169	Electron spin resonance study of defects in Si1−xGex alloy nanocrystals embedded in SiO2 matrices: Mechanism of luminescence quenching. Journal of Applied Physics, 2001, 89, 4917-4920.	2.5	19
170	Dichroic rugate filters based on birefringent porous silicon. Optics Express, 2008, 16, 15531.	3.4	19
171	Molten–Salt Synthesis and Characterization of Nickel–Doped Forsterite Nanocrystals. Journal of the American Ceramic Society, 2009, 92, 962-966.	3.8	19
172	Raman Scattering from Acoustic Phonons Confined in Microcrystals: Small Gold and Silver Particles Embedded in SiO2Thin Films. Journal of the Physical Society of Japan, 1992, 61, 754-755.	1.6	18
173	Planar silicon-based light polarizers. Optics Letters, 2004, 29, 195.	3.3	18
174	Sensitized superbroadband near-IR emission in bismuth glass/Si nanocrystal superlattices. Optics Letters, 2010, 35, 2215.	3.3	18
175	Efficient ultraviolet-blue to near-infrared downconversion in Bi–Dy–Yb-doped zeolites. Journal Physics D: Applied Physics, 2011, 44, 455301.	2.8	18
176	Enhanced photoluminescence of Si nanocrystals-doped cellulose nanofibers by plasmonic light scattering. Applied Physics Letters, 2015, 107, .	3.3	18
177	Size-controlled growth of cubic boron phosphide nanocrystals. RSC Advances, 2015, 5, 8427-8431.	3.6	18
178	Optimizing plasmon enhanced luminescence in silicon nanocrystals by gold nanorods. Nanoscale, 2021, 13, 5045-5057.	5.6	18
179	Excitation of Tm3+ by resonant energy transfer from Si nanocrystals. Journal of Applied Physics, 2002, 92, 4001-4006.	2.5	17
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