

Daniel Jaque

List of Publications by Year in descending order

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397
papers

19,396
citations

15466

65
h-index

16605

123
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416
all docs

416
docs citations

416
times ranked

12980
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticles for photothermal therapies. <i>Nanoscale</i> , 2014, 6, 9494-9530.	2.8	1,562
2	Temperature Sensing Using Fluorescent Nanothermometers. <i>ACS Nano</i> , 2010, 4, 3254-3258.	7.3	1,284
3	Luminescence nanothermometry. <i>Nanoscale</i> , 2012, 4, 4301.	2.8	1,214
4	NIR-to-NIR Two-Photon Excited CaF ₂ :Tm ³⁺ , Yb ³⁺ Nanoparticles: Multifunctional Nanoprobes for Highly Penetrating Fluorescence Bio-Imaging. <i>ACS Nano</i> , 2011, 5, 8665-8671.	7.3	381
5	Subtissue Thermal Sensing Based on Neodymium-Doped LaF ₃ Nanoparticles. <i>ACS Nano</i> , 2013, 7, 1188-1199.	7.3	338
6	Advances and challenges for fluorescence nanothermometry. <i>Nature Methods</i> , 2020, 17, 967-980.	9.0	333
7	CdSe Quantum Dots for Two-Photon Fluorescence Thermal Imaging. <i>Nano Letters</i> , 2010, 10, 5109-5115.	4.5	276
8	Intratumoral Thermal Reading During Photothermal Therapy by Multifunctional Fluorescent Nanoparticles. <i>Advanced Functional Materials</i> , 2015, 25, 615-626.	7.8	274
9	Properties of Nd ³⁺ -doped and undoped tetragonal PbWO ₄ , NaY(WO ₄) ₂ , CaWO ₄ , and undoped monoclinic ZnWO ₄ and CdWO ₄ as laser-active and stimulated Raman scattering-active crystals. <i>Applied Optics</i> , 1999, 38, 4533.	2.1	270
10	Unveiling in Vivo Subcutaneous Thermal Dynamics by Infrared Luminescent Nanothermometers. <i>Nano Letters</i> , 2016, 16, 1695-1703.	4.5	265
11	In Vivo Luminescence Nanothermometry: from Materials to Applications. <i>Advanced Optical Materials</i> , 2017, 5, 1600508.	3.6	258
12	Nd:YAG Near-Infrared Luminescent Nanothermometers. <i>Advanced Optical Materials</i> , 2015, 3, 687-694.	3.6	256
13	Standardizing luminescence nanothermometry for biomedical applications. <i>Nanoscale</i> , 2020, 12, 14405-14421.	2.8	241
14	Neodymium-Doped LaF ₃ Nanoparticles for Fluorescence Bioimaging in the Second Biological Window. <i>Small</i> , 2014, 10, 1141-1154.	5.2	185
15	1.3 μ m emitting SrF ₂ :Nd ³⁺ nanoparticles for high contrast in vivo imaging in the second biological window. <i>Nano Research</i> , 2015, 8, 649-665.	5.8	185
16	Intracellular imaging of HeLa cells by non-functionalized NaYF ₄ :Er ³⁺ , Yb ³⁺ upconverting nanoparticles. <i>Nanoscale</i> , 2010, 2, 495-498.	2.8	179
17	Inorganic nanoparticles for optical bioimaging. <i>Advances in Optics and Photonics</i> , 2016, 8, 1.	12.1	175
18	Hybrid Nanostructures for High-Sensitivity Luminescence Nanothermometry in the Second Biological Window. <i>Advanced Materials</i> , 2015, 27, 4781-4787.	11.1	174

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19	In Vivo Subcutaneous Thermal Video Recording by Supersensitive Infrared Nanothermometers. <i>Advanced Functional Materials</i> , 2017, 27, 1702249.	7.8	159
20	Highly efficient laser action in femtosecond-written Nd:yttrium aluminum garnet ceramic waveguides. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	150
21	Refractive index change mechanisms in femtosecond laser written ceramic Nd:YAG waveguides: micro-spectroscopy experiments and beam propagation calculations. <i>Applied Physics B: Lasers and Optics</i> , 2009, 95, 85-96.	1.1	141
22	Lifetime-Encoded Infrared-Emitting Nanoparticles for <i>in Vivo</i> Multiplexed Imaging. <i>ACS Nano</i> , 2018, 12, 4362-4368.	7.3	138
23	Er:Yb:NaY ₂ F ₅ O up-converting nanoparticles for sub-tissue fluorescence lifetime thermal sensing. <i>Nanoscale</i> , 2014, 6, 9727.	2.8	131
24	High-Sensitivity Fluorescence Lifetime Thermal Sensing Based on CdTe Quantum Dots. <i>Small</i> , 2012, 8, 2652-2658.	5.2	130
25	Thermal Scanning at the Cellular Level by an Optically Trapped Upconverting Fluorescent Particle. <i>Advanced Materials</i> , 2016, 28, 2421-2426.	11.1	128
26	CdTe Quantum Dots as Nanothermometers: Towards Highly Sensitive Thermal Imaging. <i>Small</i> , 2011, 7, 1774-1778.	5.2	127
27	Reliability of rare-earth-doped infrared luminescent nanothermometers. <i>Nanoscale</i> , 2018, 10, 22319-22328.	2.8	124
28	Red, green, and blue laser light from a single Nd:YAl ₃ (BO ₃) ₄ crystal based on laser oscillation at 1.3 μ m. <i>Applied Physics Letters</i> , 1999, 75, 325-327.	1.5	121
29	Yb ³⁺ /Tm ³⁺ co-doped NaNbO ₃ nanocrystals as three-photon-excited luminescent nanothermometers. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 65-71.	4.0	120
30	Fluorescent nanothermometers for intracellular thermal sensing. <i>Nanomedicine</i> , 2014, 9, 1047-1062.	1.7	117
31	Infrared-Emitting QDs for Thermal Therapy with Real-Time Subcutaneous Temperature Feedback. <i>Advanced Functional Materials</i> , 2016, 26, 6060-6068.	7.8	117
32	Nd ³⁺ doped LaF ₃ nanoparticles as self-monitored photo-thermal agents. <i>Applied Physics Letters</i> , 2014, 104, 053703.	1.5	116
33	Ag/Ag ₂ S Nanocrystals for High Sensitivity Near-Infrared Luminescence Nanothermometry. <i>Advanced Functional Materials</i> , 2017, 27, 1604629.	7.8	110
34	PbS/CdS/ZnS Quantum Dots: A Multifunctional Platform for In Vivo Near-Infrared Low-Dose Fluorescence Imaging. <i>Advanced Functional Materials</i> , 2015, 25, 6650-6659.	7.8	108
35	Overcoming Autofluorescence: Long-Lifetime Infrared Nanoparticles for Time-Gated In Vivo Imaging. <i>Advanced Materials</i> , 2016, 28, 10188-10193.	11.1	108
36	Self-monitored photothermal nanoparticles based on core-shell engineering. <i>Nanoscale</i> , 2016, 8, 3057-3066.	2.8	107

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37	Heating efficiency of multi-walled carbon nanotubes in the first and second biological windows. <i>Nanoscale</i> , 2013, 5, 7882.	2.8	106
38	Neodymium-doped nanoparticles for infrared fluorescence bioimaging: The role of the host. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	102
39	Optical bands and energy levels of ion in the nonlinear laser crystal. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 9715-9729.	0.7	100
40	Bio-functionalization of ligand-free upconverting lanthanide doped nanoparticles for bio-imaging and cell targeting. <i>Nanoscale</i> , 2012, 4, 3647.	2.8	94
41	Doping Lanthanide Ions in Colloidal Semiconductor Nanocrystals for Brighter Photoluminescence. <i>Chemical Reviews</i> , 2021, 121, 1425-1462.	23.0	94
42	Water (H ₂ O and D ₂ O) Dispersible NIR-to-NIR Upconverting Yb ³⁺ /Tm ³⁺ Doped MF ₂ (M = Ca, Sr) Colloids: Influence of the Host Crystal. <i>Crystal Growth and Design</i> , 2013, 13, 4906-4913.	1.4	93
43	Growth, spectroscopic, and laser properties of Yb ³⁺ -doped Lu ₃ Al ₅ O ₁₂ garnet crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 676.	0.9	92
44	<i>In vivo</i> autofluorescence in the biological windows: the role of pigmentation. <i>Journal of Biophotonics</i> , 2016, 9, 1059-1067.	1.1	90
45	Nd ³⁺ Yb ³⁺ energy transfer in the YAl ₃ (BO ₃) ₄ nonlinear laser crystal. <i>Physical Review B</i> , 2003, 68, .	1.1	89
46	Energy transfer with migration. Generalization of the Yokota-Tanimoto model for any kind of multipole interaction. <i>Journal of Chemical Physics</i> , 1999, 111, 1191-1194.	1.2	87
47	Rare-earth-doped fluoride nanoparticles with engineered long luminescence lifetime for time-gated <i>in vivo</i> optical imaging in the second biological window. <i>Nanoscale</i> , 2018, 10, 17771-17780.	2.8	87
48	Quantum Dot Thermometry Evaluation of Geometry Dependent Heating Efficiency in Gold Nanoparticles. <i>Langmuir</i> , 2014, 30, 1650-1658.	1.6	85
49	Deep tissue bio-imaging using two-photon excited CdTe fluorescent quantum dots working within the biological window. <i>Nanoscale</i> , 2012, 4, 298-302.	2.8	84
50	Accurate <i>In Vivo</i> Nanothermometry through NIR-Enhanced Lanthanide Luminescence Lifetime. <i>Small</i> , 2020, 16, e2004118.	5.2	84
51	Luminescence based temperature bio-imaging: Status, challenges, and perspectives. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	84
52	<i>In Vivo</i> Early Tumor Detection and Diagnosis by Infrared Luminescence Transient Nanothermometry. <i>Advanced Functional Materials</i> , 2018, 28, 1803924.	7.8	83
53	Femtosecond laser inscribed cladding waveguides in Nd:YAG ceramics: Fabrication, fluorescence imaging and laser performance. <i>Optics Express</i> , 2012, 20, 18620.	1.7	82
54	<i>In Vivo</i> Spectral Distortions of Infrared Luminescent Nanothermometers Compromise Their Reliability. <i>ACS Nano</i> , 2020, 14, 4122-4133.	7.3	82

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55	70% slope efficiency from an ultrafast laser-written Nd:GdVO ₄ channel waveguide laser. <i>Optics Express</i> , 2010, 18, 24994.	1.7	80
56	LaF ₃ core/shell nanoparticles for subcutaneous heating and thermal sensing in the second biological-window. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	78
57	In Vivo Contactless Brain Nanothermometry. <i>Advanced Functional Materials</i> , 2018, 28, 1806088.	7.8	78
58	Nanoparticles for highly efficient multiphoton fluorescence bioimaging. <i>Optics Express</i> , 2010, 18, 23544.	1.7	77
59	Neodymium-Based Stoichiometric Ultrasmall Nanoparticles for Multifunctional Deep-Tissue Photothermal Therapy. <i>Advanced Optical Materials</i> , 2016, 4, 782-789.	3.6	73
60	In Vivo Ischemia Detection by Luminescent Nanothermometers. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601195.	3.9	73
61	Ag ₂ S Nanoheaters with Multiparameter Sensing for Reliable Thermal Feedback during In Vivo Tumor Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2002730.	7.8	73
62	Real-time deep-tissue thermal sensing with sub-degree resolution by thermally improved Nd ³⁺ :LaF ₃ multifunctional nanoparticles. <i>Journal of Luminescence</i> , 2016, 175, 149-157.	1.5	71
63	Optical Torques on Upconverting Particles for Intracellular Microrheometry. <i>Nano Letters</i> , 2016, 16, 8005-8014.	4.5	70
64	Perspectives for Ag ₂ S NIR-II nanoparticles in biomedicine: from imaging to multifunctionality. <i>Nanoscale</i> , 2019, 11, 19251-19264.	2.8	69
65	Diffuse multiself-frequency conversion processes in the blue and green by quasicylindrical ferroelectric domains in Nd ³⁺ :Sr _{0.6} Ba _{0.4} (NbO ₃) ₂ laser crystal. <i>Applied Physics Letters</i> , 2001, 78, 1961-1963.	1.5	68
66	Coherent Light Generation from aNd ³⁺ Nonlinear Laser Crystal through its Ferroelectric Phase Transition. <i>Physical Review Letters</i> , 2005, 95, 267401.	2.9	67
67	Quantum Dot-Based Thermal Spectroscopy and Imaging of Optically Trapped Microspheres and Single Cells. <i>Small</i> , 2013, 9, 2162-2170.	5.2	67
68	Optical trapping of NaYF ₄ :Er ³⁺ ,Yb ³⁺ upconverting fluorescent nanoparticles. <i>Nanoscale</i> , 2013, 5, 12192.	2.8	66
69	Comparison of optical spectra of Nd ³⁺ in NdAl ₃ (BO ₃) ₄ (NAB), Nd:GdAl ₃ (BO ₃) ₄ (NGAB) and Nd:Gd _{0.2} Y _{0.8} Al ₃ (BO ₃) ₄ (NGYAB) crystals. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1171-1178.	0.7	65
70	Upconverting Nanoparticle to Quantum Dot Förster Resonance Energy Transfer: Increasing the Efficiency through Donor Design. <i>ACS Photonics</i> , 2018, 5, 2261-2270.	3.2	63
71	Core-shell rare-earth-doped nanostructures in biomedicine. <i>Nanoscale</i> , 2018, 10, 12935-12956.	2.8	63
72	Upconversion nanoparticles for <i>in vivo</i> applications: limitations and future perspectives. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 022001.	1.1	63

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73	Blue-light laser source by sum-frequency mixing in Nd:YAl ₃ (BO ₃) ₄ . Applied Physics Letters, 1998, 73, 3659-3661.	1.5	62
74	Continuous-wave laser properties of the self-frequency-doubling YAl ₃ (BO ₃) ₄ : Nd crystal. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1656.	0.9	61
75	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. Optics Letters, 2013, 38, 5248.	1.7	61
76	Upconverting nanocomposites with combined photothermal and photodynamic effects. Nanoscale, 2018, 10, 791-799.	2.8	61
77	Continuous wave laser radiation at 524 nm from a self-frequency-doubled laser of LaBGeO ₅ :Nd ³⁺ . Applied Physics Letters, 1998, 72, 531-533.	1.5	60
78	Nanosecond Nd ³⁺ :LuVO ₄ self-Raman laser. Laser Physics Letters, 2009, 6, 374-379.	0.6	60
79	Luminescent nanoprobes for thermal bio-sensing: Towards controlled photo-thermal therapies. Journal of Luminescence, 2016, 169, 394-399.	1.5	59
80	Nd ³⁺ ions in nanomedicine: Perspectives and applications. Optical Materials, 2017, 63, 185-196.	1.7	59
81	Optomagnetic Nanoplatfoms for In Situ Controlled Hyperthermia. Advanced Functional Materials, 2018, 28, 1704434.	7.8	59
82	Rare earth and transition metal ion centers in LiNbO ₃ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1571-1581.	2.0	57
83	Optical characterization and laser gain modeling of a NdAl ₃ (BO ₃) ₄ (NAB) microchip laser crystal. Journal of Applied Physics, 2001, 90, 561-569.	1.1	56
84	Assessing Single Upconverting Nanoparticle Luminescence by Optical Tweezers. Nano Letters, 2015, 15, 5068-5074.	4.5	56
85	Ultrafast photochemistry produces superbright short-wave infrared dots for low-dose in vivo imaging. Nature Communications, 2020, 11, 2933.	5.8	56
86	Rare Earth Spontaneous Emission Control in Three Dimensional Lithium Niobate Photonic Crystals. Advanced Materials, 2009, 21, 3526-3530.	11.1	54
87	Beyond Phototherapy: Recent Advances in Multifunctional Fluorescent Nanoparticles for Light-Triggered Tumor Theranostics. Advanced Functional Materials, 2018, 28, 1803733.	7.8	54
88	Vortex lattice channeling effects in Nb films induced by anisotropic arrays of mesoscopic pinning centers. Physical Review B, 2002, 65, .	1.1	53
89	High Resolution Fluorescence Imaging of Cancers Using Lanthanide Ion-Doped Upconverting Nanocrystals. Cancers, 2012, 4, 1067-1105.	1.7	53
90	Infrared continuous-wave laser gain in neodymium aluminum borate: A promising candidate for microchip diode-pumped solid state lasers. Applied Physics Letters, 2000, 76, 2176-2178.	1.5	52

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91	Determining the 3D orientation of optically trapped upconverting nanorods by <i>in situ</i> single-particle polarized spectroscopy. <i>Nanoscale</i> , 2016, 8, 300-308.	2.8	52
92	In Vivo Deep Tissue Fluorescence and Magnetic Imaging Employing Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1406-1414.	4.0	52
93	Nd ³⁺ ion based self frequency doubling solid state lasers. <i>Optical Materials</i> , 1999, 13, 147-157.	1.7	51
94	Femtosecond laser written surface waveguides fabricated in Nd:YAG ceramics. <i>Optics Express</i> , 2007, 15, 13266.	1.7	51
95	Femtosecond-laser-written, stress-induced Nd:YVO ₄ waveguides preserving fluorescence and Raman gain. <i>Optics Letters</i> , 2010, 35, 916.	1.7	51
96	Infrared-Emitting Multimodal Nanostructures for Controlled In Vivo Magnetic Hyperthermia. <i>Advanced Materials</i> , 2021, 33, e2100077.	11.1	51
97	Continuous wave laser generation at 1064 nm in femtosecond laser inscribed Nd:YVO ₄ channel waveguides. <i>Applied Physics Letters</i> , 2010, 97, 031119.	1.5	49
98	Fluorescent nanothermometers provide controlled plasmonic-mediated intracellular hyperthermia. <i>Nanomedicine</i> , 2013, 8, 379-388.	1.7	49
99	Optical trapping for biosensing: materials and applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9085-9101.	2.9	48
100	Spectral and thermal properties of quasiphase-matching second-harmonic-generation in Nd ³⁺ :Sr _{0.6} Ba _{0.4} (NbO ₃) ₂ multiresonance-frequency-converter nonlinear crystals. <i>Journal of Applied Physics</i> , 2003, 93, 3111-3113.	1.1	47
101	Ultrafast laser writing of optical waveguides in ceramic Yb:YAG: a study of thermal and non-thermal regimes. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 301-309.	1.1	47
102	Phase transition in Sr _x Ba _{1-x} Nb ₂ O ₆ ferroelectric crystals probed by Raman spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 4930-4934.	1.3	46
103	Monolithic crystalline cladding microstructures for efficient light guiding and beam manipulation in passive and active regimes. <i>Scientific Reports</i> , 2014, 4, 5988.	1.6	46
104	Simultaneous generation of coherent light in the three fundamental colors by quasicylindrical ferroelectric domains in Sr _{0.6} Ba _{0.4} (NbO ₃) ₂ . <i>Applied Physics Letters</i> , 2002, 81, 4106-4108.	1.5	45
105	Bi-functional laser and non-linear optical crystals. <i>Optical Materials</i> , 2006, 28, 310-323.	1.7	44
106	Spectroscopic characterisation of the Tm ³⁺ doped KLa(WO ₄) ₂ single crystals. <i>Optical Materials</i> , 2006, 28, 980-987.	1.7	44
107	Ultrafast laser fabrication of low-loss waveguides in chalcogenide glass with 0.65 dB/cm loss. <i>Optics Letters</i> , 2012, 37, 1418.	1.7	44
108	Confocal Raman imaging of optical waveguides in LiNbO ₃ fabricated by ultrafast high-repetition rate laser-writing. <i>Optics Express</i> , 2008, 16, 13979.	1.7	43

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109	Swift nitrogen ion irradiated waveguide lasers in Nd:YAG crystal. Optics Express, 2011, 19, 5522.	1.7	42
110	Ion-implanted optical channel waveguides in neodymium-doped yttrium aluminum garnet transparent ceramics for integrated laser generation. Optics Letters, 2009, 34, 28.	1.7	41
111	Anisotropic lattice changes in femtosecond laser inscribed Nd ³⁺ :MgO:LiNbO ₃ optical waveguides. Journal of Applied Physics, 2009, 106, .	1.1	41
112	Time resolved spectroscopy of infrared emitting Ag ₂ S nanocrystals for subcutaneous thermometry. Nanoscale, 2017, 9, 2505-2513.	2.8	41
113	Going Above and Beyond: A Tenfold Gain in the Performance of Luminescence Thermometers Joining Multiparametric Sensing and Multiple Regression. Laser and Photonics Reviews, 2021, 15, 2100301.	4.4	41
114	Self-frequency-sum mixing in Nd doped nonlinear crystals for laser generation in the three fundamental colours. Journal of Alloys and Compounds, 2001, 323-324, 204-209.	2.8	40
115	Optical investigation of femtosecond laser induced microstress in neodymium doped lithium niobate crystals. Journal of Applied Physics, 2006, 100, 033521.	1.1	40
116	Swift heavy-ion irradiated active waveguides in Nd:YAG crystals: fabrication and laser generation. Optics Letters, 2010, 35, 3276.	1.7	40
117	Fluorescent nano-particles for multi-photon thermal sensing. Journal of Luminescence, 2013, 133, 249-253.	1.5	40
118	Continuous-wave diode-pumped Yb:glass laser with near 90% slope efficiency. Applied Physics Letters, 2006, 89, 121101.	1.5	39
119	High resolution fluorescence imaging of damage regions in H ⁺ ion implanted Nd:MgO:LiNbO ₃ channel waveguides. Applied Physics Letters, 2009, 94, .	1.5	39
120	Thermally resistant waveguides fabricated in Nd:YAG ceramics by crossing femtosecond damage filaments. Optics Letters, 2010, 35, 330.	1.7	39
121	Compact, highly efficient ytterbium doped bismuthate glass waveguide laser. Optics Letters, 2012, 37, 1691.	1.7	39
122	Evaluation of ytterbium doped strontium barium niobate as a potential tunable laser crystal in the visible. Journal of Applied Physics, 2004, 95, 6185-6191.	1.1	38
123	Absorption efficiency of gold nanorods determined by quantum dot fluorescence thermometry. Applied Physics Letters, 2012, 100, 201110.	1.5	38
124	On the existence of two states in liquid water: impact on biological and nanoscopic systems. International Journal of Nanotechnology, 2016, 13, 667.	0.1	38
125	Gold nanoshells: Contrast agents for cell imaging by cardiovascular optical coherence tomography. Nano Research, 2018, 11, 676-685.	5.8	38
126	Continuous wave laser radiation at 669 nm from a self-frequency-doubled laser of YAl ₃ (BO ₃) ₄ :Nd ³⁺ . Applied Physics Letters, 1999, 74, 1788-1790.	1.5	37

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127	Effects of pump heating on laser and spectroscopic properties of the Nd:[YAl ₃ (BO ₃) ₄] self-frequency-doubling laser. <i>Journal of Applied Physics</i> , 2000, 87, 1042-1048.	1.1	37
128	Nd ³⁺ -doped Ca ₃ Ga ₂ Ge ₃ O ₁₂ garnet: A new optical pressure sensor. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	37
129	Subtissue Imaging and Thermal Monitoring of Gold Nanorods through Joined Encapsulation with Nd ³⁺ -Doped Infrared-Emitting Nanoparticles. <i>Small</i> , 2016, 12, 5394-5400.	5.2	37
130	Fluorescence quantum efficiency and Auger upconversion losses of the stoichiometric laser crystal NdAl ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2005, 72, .	1.1	36
131	Direct laser writing of near-IR step-index buried channel waveguides in rare earth doped YAG. <i>Optics Letters</i> , 2011, 36, 3395.	1.7	36
132	Optical Forces at the Nanoscale: Size and Electrostatic Effects. <i>Nano Letters</i> , 2018, 18, 602-609.	4.5	35
133	Infrared fluorescence imaging of infarcted hearts with Ag ₂ S nanodots. <i>Nano Research</i> , 2019, 12, 749-757.	5.8	35
134	Self-frequency-summing NYAB laser for tunable blue generation. <i>Optical Materials</i> , 1999, 13, 311-317.	1.7	34
135	Spectroscopic and laser properties of Nd ³⁺ in SBN. <i>Journal of Luminescence</i> , 2000, 87-89, 877-879.	1.5	34
136	Room-temperature continuous wave laser oscillations in Nd:YAG ceramic waveguides produced by carbon ion implantation. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 837-840.	1.1	34
137	Reliable and Remote Monitoring of Absolute Temperature during Liver Inflammation via Luminescence Lifetime-Based Nanothermometry. <i>Advanced Materials</i> , 2022, 34, e2107764.	11.1	34
138	Continuous-wave laser oscillation at 929nm from a Nd ³⁺ -doped LiNbO ₃ :ZnO nonlinear laser crystal: A powerful tool for blue laser light generation. <i>Applied Physics Letters</i> , 2004, 85, 19-21.	1.5	33
139	Scanning confocal fluorescence imaging and micro-Raman investigations of oxygen implanted channel waveguides in Nd:MgO:LiNbO ₃ . <i>Applied Physics Letters</i> , 2008, 92, .	1.5	33
140	<i>Quo Vadis</i>, Nanoparticle-Enabled <i>In Vivo</i> Fluorescence Imaging?. <i>ACS Nano</i> , 2021, 15, 1917-1941.	7.3	33
141	Up-conversion luminescence in the Nd ³⁺ :YAB self frequency doubling laser crystal. <i>Optical Materials</i> , 1998, 10, 211-217.	1.7	32
142	Order in driven vortex lattices in superconducting Nb films with nanostructured pinning potentials. <i>Physical Review B</i> , 2002, 65, .	1.1	32
143	Persistent luminescence nanothermometers. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	32
144	Quantitative Comparison of the Light-to-Heat Conversion Efficiency in Nanomaterials Suitable for Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33555-33566.	4.0	32

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145	Continuous wave laser radiation and self-frequency-doubling in ZnO doped LiNbO ₃ :Nd ³⁺ . Optics Communications, 1999, 161, 253-256.	1.0	31
146	High-resolution confocal fluorescence thermal imaging of tightly pumped microchip Nd:YAG laser ceramics. Applied Physics B: Lasers and Optics, 2012, 107, 697-701.	1.1	31
147	Waveguide lasers based on dielectric materials. Optical Materials, 2012, 34, 555-571.	1.7	31
148	Thulium doped LaF ₃ for nanothermometry operating over 1000 nm. Nanoscale, 2019, 11, 8864-8869.	2.8	31
149	Anisotropic pinning enhancement in Nb films with arrays of submicrometric Ni lines. Applied Physics Letters, 2002, 81, 2851-2853.	1.5	30
150	Temperature dependence of Nd ³⁺ Yb ³⁺ energy transfer in the YAl ₃ (BO ₃) ₄ nonlinear laser crystal. Journal of Applied Physics, 2005, 97, 093510.	1.1	30
151	Luminescence of lanthanide ions in strontium barium niobate. Journal of Luminescence, 2007, 122-123, 307-310.	1.5	30
152	Ion-implanted optical-stripe waveguides in neodymium-doped calcium barium niobate crystals. Optics Letters, 2009, 34, 1438.	1.7	30
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