

Peter J Pauzauskie

List of Publications by Year in descending order

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docs citations

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times ranked

6724
citing authors

#	ARTICLE	IF	CITATIONS
1	Safe and Scalable Polyethylene Glycol-Assisted Hydrothermal Synthesis and Laser Cooling of 10%Yb ³⁺ :LiLuF ₄ Crystals. Applied Sciences (Switzerland), 2022, 12, 774.	1.3	4
2	Chemically Tunable Aspect Ratio Control and Laser Refrigeration of Hexagonal Sodium Yttrium Fluoride Upconverting Materials. Crystal Growth and Design, 2022, 22, 3605-3612.	1.4	4
3	Semiconductor yields sensitive thermometry. Nature Photonics, 2022, 16, 407-408.	15.6	1
4	Reduced photothermal heating in diamonds enriched with H3 point defects. Journal of Applied Physics, 2022, 131, 234401.	1.1	0
5	Quantum Point Defects for Solid-State Laser Refrigeration. Advanced Materials, 2021, 33, e1905406.	11.1	17
6	Laser-Driven Growth of Semiconductor Nanowires from Colloidal Nanocrystals. ACS Nano, 2021, 15, 8653-8662.	7.3	6
7	Reply to Comment on "A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires". Chemistry of Materials, 2021, 33, 3862-3864.	3.2	1
8	Hydrothermal Synthesis and Solid-State Laser Refrigeration of Ytterbium-Doped Potassium-Lutetium-Fluoride (KLF) Microcrystals. Chemistry of Materials, 2021, 33, 4417-4424.	3.2	10
9	Laser refrigeration of optically levitated sodium yttrium fluoride nanocrystals. Optics Letters, 2021, 46, 3797.	1.7	10
10	Hydrothermal Synthesis of Yb ³⁺ : LuLiF ₄ Microcrystals and Laser Refrigeration of Yb ³⁺ : LuLiF ₄ /Silicon Nitride Composite Nanostructures. Laser and Photonics Reviews, 2021, 15, 2100019.	4.4	12
11	The impact of 2H Å†'Å†I emission from Er ³⁺ ions on ratiometric optical temperature sensing with Yb ³⁺ /Er ³⁺ co-doped upconversion materials. Journal of Luminescence, 2021, 236, 118006.	1.5	18
12	Laser Refrigeration of Sodium Yttrium Fluoride Nanoparticles in a Vacuum Optical Tweezer. , 2021, , .		0
13	Spectroscopic Signatures of the B and H ₄ Polyatomic Nitrogen Aggregates in Nanodiamond. Journal of Physical Chemistry C, 2020, 124, 18275-18283.	1.5	5
14	Solid-state laser refrigeration of a composite semiconductor Yb:YLiF ₄ optomechanical resonator. Nature Communications, 2020, 11, 3235.	5.8	17
15	Additive Manufacturing of a Flexible Carbon Monoxide Sensor Based on a SnO ₂ -Graphene Nanoink. Chemosensors, 2020, 8, 36.	1.8	10
16	A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires. Chemistry of Materials, 2020, 32, 2753-2763.	3.2	27
17	Crystalline loading of lipophilic Coenzyme Q10 pharmaceuticals within conjugated carbon aerogel derivatives. Carbon, 2020, 164, 451-458.	5.4	6
18	Optically oriented attachment of nanoscale metal-semiconductor heterostructures in organic solvents via photonic nanosoldering. Nature Communications, 2019, 10, 4942.	5.8	8

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19	Photothermal Heating of Semiconductor Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28941-28947.	1.5	3
20	Observation of Void Formation in Cubic NaYF ₄ Nanocrystals Using In Situ Heating Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1496-1497.	0.2	0
21	Can lasers really refrigerate CdS nanobelts?. <i>Nature</i> , 2019, 570, E60-E61.	13.7	19
22	Interface-Dependent Radiative Lifetimes of Yb ³⁺ , Er ³⁺ Co-doped Single NaYF ₄ Upconversion Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22817-22823.	4.0	18
23	A mail-in and user facility for X-ray absorption near-edge structure: the CEI-XANES laboratory X-ray spectrometer at the University of Washington. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 2086-2093.	1.0	14
24	Design of a radiation-balanced fiber laser via optically active composite cladding materials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3307.	0.9	13
25	Laser refrigeration of ytterbium-doped alkali-yttrium-fluoride nanostructures (Yb:MYF, M = K, Na, Li). , 2019, , .		0
26	Anti-Stokes laser refrigeration of a nanoscale semiconductor gain medium. , 2019, , .		0
27	Laser refrigeration of optical fibers via optically-active composite cladding materials. , 2019, , .		1
28	Effect of Surface Passivation on Nanodiamond Crystallinity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8573-8580.	1.5	24
29	Optomechanical Thermometry of Nanoribbon Cantilevers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7525-7532.	1.5	17
30	Copper- and chloride-mediated synthesis and optoelectronic trapping of ultra-high aspect ratio palladium nanowires. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5644-5651.	5.2	13
31	Electronic structures and spectroscopic signatures of silicon-vacancy containing nanodiamonds. <i>Physical Review B</i> , 2018, 98, .	1.1	16
32	Photothermal effects during nanodiamond synthesis from a carbon aerogel in a laser-heated diamond anvil cell. <i>Diamond and Related Materials</i> , 2018, 87, 134-142.	1.8	12
33	Patterning of graphene oxide with optoelectronic tweezers. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	15
34	Photothermal Heating and Cooling of Nanostructures. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2575-2586.	1.7	13
35	Chitosanâ€Gated Magneticâ€Responsive Nanocarrier for Dualâ€Modal Optical Imaging, Switchable Drug Release, and Synergistic Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601080.	3.9	26
36	Laser refrigeration of rare-earth doped sodium-yttrium-fluoride nanowires. , 2017, , .		0

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37	Photothermal heating of nanoribbons. <i>Optical Engineering</i> , 2017, 56, 011111.	0.5	1
38	Scale-up of high specific activity ¹⁸⁶ Re production using graphite-encased thick ¹⁸⁶ W targets and demonstration of an efficient target recycling process. <i>Radiochimica Acta</i> , 2017, 105, 1071-1081.	0.5	12
39	Rapid synthesis of transition metal dichalcogenide-carbon aerogel composites for supercapacitor electrodes. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17032.	3.4	48
40	Laser Refrigeration of Rare-earth Doped Sodium Yttrium Fluoride Nanowires with Anti-Stokes Fluorescence. , 2017, , .		0
41	Ion-implanted silicon nanowires. <i>Series in Materials Science and Engineering</i> , 2017, , 495-514.	0.1	0
42	Accelerator-based production of the ^{99m} Tc- ¹⁸⁶ Re diagnostic-therapeutic pair using metal disulfide targets (MoS ₂ , WS ₂ , OsS ₂). <i>Applied Radiation and Isotopes</i> , 2016, 114, 159-166.	0.7	16
43	Pulsed Photothermal Heating of One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21730-21739.	1.5	3
44	Laser Refrigeration of Ytterbium-Doped Sodium-Yttrium-Fluoride Nanowires. <i>Advanced Materials</i> , 2016, 28, 8658-8662.	11.1	48
45	Deuteron irradiation of W and WO ₃ for production of high specific activity ¹⁸⁶ Re: Challenges associated with thick target preparation. <i>Applied Radiation and Isotopes</i> , 2016, 115, 197-207.	0.7	15
46	Analytical predictions of the temperature profile within semiconductor nanostructures for solid-state laser refrigeration. , 2016, , .		0
47	Photothermal Superheating of Water with Ion-Implanted Silicon Nanowires. <i>Advanced Optical Materials</i> , 2015, 3, 1362-1367.	3.6	6
48	Nanoscale materials for hyperthermal theranostics. <i>Nanoscale</i> , 2015, 7, 7115-7126.	2.8	39
49	Singlet-Oxygen Generation from Individual Semiconducting and Metallic Nanostructures during Near-Infrared Laser Trapping. <i>ACS Photonics</i> , 2015, 2, 559-564.	3.2	14
50	Mass Transport in Nanowire Synthesis: An Overview of Scalable Nanomanufacturing. <i>Journal of Materials Science and Technology</i> , 2015, 31, 523-532.	5.6	7
51	Hot Brownian thermometry and cavity-enhanced harmonic generation with nonlinear optical nanowires. <i>Chemical Physics Letters</i> , 2015, 639, 310-314.	1.2	6
52	Ultrafast sol-gel synthesis of graphene aerogel materials. <i>Carbon</i> , 2015, 95, 616-624.	5.4	76
53	Laser refrigeration of hydrothermal nanocrystals in physiological media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15024-15029.	3.3	82
54	Rapid sol-gel synthesis of nanodiamond aerogel. <i>Journal of Materials Research</i> , 2014, 29, 2905-2911.	1.2	20

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55	Photothermal Heating of Nanowires. Journal of Physical Chemistry C, 2014, 118, 1407-1416.	1.5	32
56	Mechanically robust 3D graphene macroassembly with high surface area. Chemical Communications, 2012, 48, 8428.	2.2	227
57	Nanowire Heating by Optical Electromagnetic Irradiation. Langmuir, 2012, 28, 16177-16185.	1.6	28
58	<i>In Situ</i> Raman Spectroscopy of COOH-Functionalized SWCNTs Trapped with Optoelectronic Tweezers. Advances in OptoElectronics, 2012, 2012, 1-4.	0.6	6
59	High Surface Area, sp^2 -Cross-Linked Three-Dimensional Graphene Monoliths. Journal of Physical Chemistry Letters, 2011, 2, 921-925.	2.1	212
60	Synthesis and characterization of a nanocrystalline diamond aerogel. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8550-8553.	3.3	52
61	Synthesis of Graphene Aerogel with High Electrical Conductivity. Journal of the American Chemical Society, 2010, 132, 14067-14069.	6.6	1,101
62	Parallel trapping of multiwalled carbon nanotubes with optoelectronic tweezers. Applied Physics Letters, 2009, 95, 113104.	1.5	52
63	High surface area carbon nanotube-supported titanium carbonitride aerogels. Journal of Materials Chemistry, 2009, 19, 5503.	6.7	21
64	NanoPen: Dynamic, Low-Power, and Light-Actuated Patterning of Nanoparticles. Nano Letters, 2009, 9, 2921-2925.	4.5	93
65	Dynamic manipulation and separation of individual semiconducting and metallic nanowires. Nature Photonics, 2008, 2, 86-89.	15.6	246
66	Study of the dipole-dipole interaction between metallic nanowires trapped using Optoelectronic Tweezers (OET)., 2008, , .		0
67	Trapping and Transport of Silicon Nanowires Using Lateral-Field Optoelectronic Tweezers. , 2007, , .		10
68	Semiconductor nanowire manipulation using optoelectronic tweezers. , 2007, , .		7
69	Tunable nanowire nonlinear optical probe. Nature, 2007, 447, 1098-1101.	13.7	544
70	Optical trapping and integration of semiconductor nanowire assemblies in water. Nature Materials, 2006, 5, 97-101.	13.3	399
71	Polarized Raman Confocal Microscopy of Single Gallium Nitride Nanowires. Journal of the American Chemical Society, 2005, 127, 17146-17147.	6.6	70
72	Self-Organized GaN Quantum Wire UV Lasers. Journal of Physical Chemistry B, 2003, 107, 8721-8725.	1.2	281

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73	Metalorganic Chemical Vapor Deposition Route to GaN Nanowires with Triangular Cross Sections. Nano Letters, 2003, 3, 1063-1066.	4.5	362