

Peter J Reece

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100
papers

3,729
citations

33
h-index

59
g-index

124
ext. papers

4,331
ext. citations

7.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
100	Efficient silicon light-emitting diodes. <i>Nature</i> , 2001 , 412, 805-8	50.4	424
99	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers (SAMs) for bio-applications. <i>Chemical Society Reviews</i> , 2014 , 43, 2680-700	58.5	318
98	Optical micromanipulation. <i>Chemical Society Reviews</i> , 2008 , 37, 42-55	58.5	282
97	Optical vortex trap for resonant confinement of metal nanoparticles. <i>Optics Express</i> , 2008 , 16, 4991-9	3.3	182
96	Optical micromanipulation takes hold. <i>Nano Today</i> , 2006 , 1, 18-27	17.9	156
95	Elevated temperature anodized Nb2O5: a photoanode material with exceptionally large photoconversion efficiencies. <i>ACS Nano</i> , 2012 , 6, 4045-53	16.7	150
94	All-silicon omnidirectional mirrors based on one-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2003 , 82, 3227-3229	3.4	104
93	Porous silicon based narrow line-width rugate filters. <i>Optical Materials</i> , 2007 , 29, 619-622	3.3	94
92	Polaronic exciton binding energy in iodide and bromide organic-inorganic lead halide perovskites. <i>Applied Physics Letters</i> , 2015 , 107, 231902	3.4	90
91	Optical microcavities with subnanometer linewidths based on porous silicon. <i>Applied Physics Letters</i> , 2002 , 81, 4895-4897	3.4	81
90	Optical deflection and sorting of microparticles in a near-field optical geometry. <i>Optics Express</i> , 2008 , 16, 3712-26	3.3	76
89	Construction and calibration of an optical trap on a fluorescence optical microscope. <i>Nature Protocols</i> , 2007 , 2, 3226-38	18.8	76
88	Experimental observation of modulation instability and optical spatial soliton arrays in soft condensed matter. <i>Physical Review Letters</i> , 2007 , 98, 203902	7.4	74
87	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. <i>Nature Communications</i> , 2019 , 10, 2109	17.4	68
86	Fabricating low cost and high performance elastomer lenses using hanging droplets. <i>Biomedical Optics Express</i> , 2014 , 5, 1626-35	3.5	65
85	One-pot synthesis of colloidal silicon quantum dots and surface functionalization via thiol-ene click chemistry. <i>Chemical Communications</i> , 2012 , 48, 11874-6	5.8	64
84	Characterization of semiconductor nanowires using optical tweezers. <i>Nano Letters</i> , 2011 , 11, 2375-81	11.5	57

83	Different functionalization of the internal and external surfaces in mesoporous materials for biosensing applications using "click" chemistry. <i>Langmuir</i> , 2011 , 27, 328-34	4	50
82	Functionalised porous silicon as a biosensor: emphasis on monitoring cells in vivo and in vitro. <i>Analyst, The</i> , 2013 , 138, 3593-615	5	49
81	Suppression of interdiffusion in InGaAs/GaAs quantum dots using dielectric layer of titanium dioxide. <i>Applied Physics Letters</i> , 2003 , 82, 2613-2615	3-4	49
80	Enhancing Quantum Dots for Bioimaging using Advanced Surface Chemistry and Advanced Optical Microscopy: Application to Silicon Quantum Dots (SiQDs). <i>Advanced Materials</i> , 2015 , 27, 6144-50	24	48
79	Mesoporous silicon photonic crystal microparticles: towards single-cell optical biosensors. <i>Faraday Discussions</i> , 2011 , 149, 301-17; discussion 333-56	3.6	48
78	Versatile "click chemistry" approach to functionalizing silicon quantum dots: applications toward fluorescent cellular imaging. <i>Langmuir</i> , 2014 , 30, 5209-16	4	47
77	Near-field optical micromanipulation with cavity enhanced evanescent waves. <i>Applied Physics Letters</i> , 2006 , 88, 2211-16	3-4	47
76	Paper-Based Sensor for Monitoring Sun Exposure. <i>ACS Sensors</i> , 2016 , 1, 775-780	9.2	45
75	Clear quantum-confined luminescence from crystalline silicon/SiO ₂ single quantum wells. <i>Applied Physics Letters</i> , 2004 , 84, 2286-2288	3-4	43
74	Protease detection using a porous silicon based Bloch surface wave optical biosensor. <i>Optics Express</i> , 2010 , 18, 15174-82	3-3	42
73	Nonlinear optical processes in optically trapped InP nanowires. <i>Nano Letters</i> , 2011 , 11, 4149-53	11.5	42
72	Optical properties of II-VI colloidal quantum dot doped porous silicon microcavities. <i>Applied Physics Letters</i> , 2010 , 96, 1611-06	3-4	40
71	Optical Manipulation and Spectroscopy Of Silicon Nanoparticles Exhibiting Dielectric Resonances. <i>Nano Letters</i> , 2016 , 16, 1903-10	11.5	37
70	Slow-light-enhanced upconversion for photovoltaic applications in one-dimensional photonic crystals. <i>Optics Letters</i> , 2011 , 36, 3990-2	3	37
69	Broadband laser mirrors made from porous silicon. <i>Applied Physics Letters</i> , 2004 , 84, 3519-3521	3-4	36
68	Proton-irradiation-induced intermixing of InGaAs quantum dots. <i>Applied Physics Letters</i> , 2003 , 82, 2053-2055	3	36
67	Ultrasensitive and specific measurement of protease activity using functionalized photonic crystals. <i>Analytical Chemistry</i> , 2015 , 87, 9946-53	7.8	32
66	Optimising the enzyme response of a porous silicon photonic crystal via the modular design of enzyme sensitive polymers. <i>Polymer Chemistry</i> , 2014 , 5, 2333-2341	4.9	29

65	A rapid readout for many single plasmonic nanoparticles using dark-field microscopy and digital color analysis. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 530-536	11.8	28
64	Resolving stable axial trapping points of nanowires in an optical tweezers using photoluminescence mapping. <i>Nano Letters</i> , 2013 , 13, 1185-91	11.5	26
63	Optical properties of erbium-implanted porous silicon microcavities. <i>Applied Physics Letters</i> , 2004 , 85, 3363-3365	3.4	26
62	Combined optical trapping and microphotoluminescence of single InP nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 101109	3.4	25
61	Hydrothermal synthesis of highly luminescent blue-emitting ZnSe(S) quantum dots exhibiting low toxicity. <i>Materials Science and Engineering C</i> , 2016 , 64, 167-172	8.3	23
60	Biofunctionalization of free-standing porous silicon films for self-assembly of photonic devices. <i>Soft Matter</i> , 2012 , 8, 360-366	3.6	23
59	Antibody modified porous silicon microparticles for the selective capture of cells. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1282-9	6.3	22
58	Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams. <i>Optics Express</i> , 2008 , 16, 10117-29	3.3	21
57	Dark-field optical tweezers for nanometrology of metallic nanoparticles. <i>Optics Express</i> , 2011 , 19, 25559-69	3.9	20
56	Photolithographic strategy for patterning preformed, chemically modified, porous silicon photonic crystal using click chemistry. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6514-21	9.5	19
55	Air-stable PbS quantum dots synthesized with slow reaction kinetics via a PbBr ₂ precursor. <i>RSC Advances</i> , 2015 , 5, 68579-68586	3.7	18
54	Study of gamma irradiation effect on commercial TiO ₂ photocatalyst. <i>Applied Radiation and Isotopes</i> , 2014 , 89, 25-9	1.7	18
53	Optical tweezers beyond refractive index mismatch using highly doped upconversion nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 531-537	28.7	18
52	The analytical performance of a porous silicon Bloch surface wave biosensors as protease biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 469-475	8.5	16
51	Intrinsic heating in optically trapped Au nanoparticles measured by dark-field spectroscopy. <i>Biomedical Optics Express</i> , 2015 , 6, 3646-54	3.5	14
50	Redox-Active Monolayers in Mesoporous Silicon. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16080-16088	3.8	14
49	Micropatterning of porous silicon Bragg reflectors with poly(ethylene glycol) to fabricate cell microarrays: Towards single cell sensing. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 229-235	11.8	14
48	Chemical patterning on preformed porous silicon photonic crystals: towards multiplex detection of protease activity at precise positions Electronic supplementary information (ESI) available: SEM images, XPS result and more optical reflectivity data. See DOI: 10.1039/c4tb00281d Click here for additional data files. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2588-2598	7.3	13

47	Electrochemical Fabrication of Silicon-Based Micro-Nano-Hybrid Porous Arrays for Hybrid-Lattice Photonic Crystal. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P893-P897	2	13
46	Photoluminescence in crystalline silicon quantum wells. <i>Journal of Applied Physics</i> , 2007 , 101, 024321	2.5	13
45	Nonconservative dynamics of optically trapped high-aspect-ratio nanowires. <i>Physical Review E</i> , 2016 , 93, 022137	2.4	11
44	Spectroscopy of 3D-trapped particles inside a hollow-core microstructured optical fiber. <i>Optics Express</i> , 2012 , 20, 11232-40	3.3	11
43	Difference in hot carrier cooling rate between Langmuir-Blodgett and drop cast PbS QD films due to strong electron-phonon coupling. <i>Nanoscale</i> , 2017 , 9, 17133-17142	7.7	10
42	Synthesis of type-II CdSe(S)/Fe ₂ O ₃ core/shell quantum dots: the effect of shell on the properties of core/shell quantum dots. <i>Journal of Materials Science</i> , 2016 , 51, 5252-5258	4.3	10
41	A multimodal optical and electrochemical device for monitoring surface reactions: redox active surfaces in porous silicon Rugate filters. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16433-9	3.6	9
40	Depth-resolved chemical modification of porous silicon by wavelength-tuned irradiation. <i>Langmuir</i> , 2012 , 28, 15444-9	4	9
39	Green laser light (532nm) activates a chloride current in the C1 neuron of <i>Helix aspersa</i> . <i>Neuroscience Letters</i> , 2008 , 433, 265-9	3.3	9
38	Fabrication and tuning of high quality porous silicon microcavities. <i>Physica Status Solidi A</i> , 2003 , 197, 321-325		8
37	Effects of Zn Doping on Intermixing in InGaAs/AlGaAs Laser Diode Structures. <i>Journal of the Electrochemical Society</i> , 2003 , 150, G481	3.9	8
36	Optical tweezers-based characterisation of gold core-satellite plasmonic nano-assemblies incorporating thermo-responsive polymers. <i>Nanoscale</i> , 2020 , 12, 1680-1687	7.7	8
35	Ultrafast fabrication of high-aspect-ratio macropores in P-type silicon: toward the mass production of microdevices. <i>Materials Research Letters</i> , 2018 , 6, 648-654	7.4	8
34	Deposition of CdSe quantum dots on graphene sheets. <i>Journal of Luminescence</i> , 2014 , 146, 46-52	3.8	7
33	The effect of (NH ₄) ₂ S _x passivation on the (311)A GaAs surface and its use in AlGaAs/GaAs heterostructure devices. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 325304	1.8	7
32	Optical bistability in mesoporous silicon microcavity resonators. <i>Journal of Applied Physics</i> , 2011 , 109, 093113	2.5	7
31	Substrate independent assembly of optical structures guided by biomolecular interactions. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3270-5	9.5	6
30	Using back focal plane interferometry to probe the influence of Zernike aberrations in optical tweezers. <i>Optics Letters</i> , 2017 , 42, 2968-2971	3	6

29	Impact of metal crystallinity-related morphologies on the sensing performance of plasmonic nanohole arrays. <i>Nanoscale</i> , 2020 , 12, 7577-7585	7.7	5
28	TiO ₂ films prepared by ultrasonic spray pyrolysis. <i>Materials Science and Technology</i> , 2010 , 26, 469-472	1.5	5
27	Porous silicon: a versatile optical material 2004 , 5277, 9		5
26	Decoupling the effects of confinement and passivation on semiconductor quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19765-72	3.6	5
25	High-resolution light-activated electrochemistry on amorphous silicon-based photoelectrodes. <i>Chemical Communications</i> , 2020 , 56, 7435-7438	5.8	4
24	Manipulating the Quantum Coherence of Optically Trapped Nanodiamonds. <i>ACS Photonics</i> , 2018 , 5, 4491-4496	6.4	4
23	Extending omnidirectional reflection bands in one-dimensional photonic crystals. <i>Journal of Physics Communications</i> , 2018 , 2, 055003	1.2	4
22	Optimising porous silicon Bragg reflectors for narrow spectral resonances. <i>Journal of Applied Physics</i> , 2018 , 124, 163103	2.5	3
21	Using light scattering to resolve Brownian rotation dynamics of optically trapped Au nanorods. <i>Journal of Applied Physics</i> , 2018 , 123, 054302	2.5	2
20	Noise induced aperiodic rotations of particles trapped by a non-conservative force. <i>Chaos</i> , 2018 , 28, 043101	3.0	2
19	Influence of GaAsSb structural properties on the optical properties of InAs/GaAsSb quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 7-14	3	2
18	Porous Silicon Omnidirectional Bragg Reflector for Si Solar Cells 2014 ,		2
17	Near-Field Optical Micromanipulation 2008 , 107-137		2
16	Generating Power at Night Using a Thermoradiative Diode, How is this Possible? 2020 ,		2
15	Optimizing Optical Tweezers Experiments for Magnetic Resonance Sensing with Nanodiamonds. <i>ACS Photonics</i> , 2021 , 8, 1214-1221	6.3	2
14	Vertical Integration of Cell-Laden Hydrogels with Bioinspired Photonic Crystal Membranes. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801233	4.6	2
13	Biophotonics feature: introduction. <i>Biomedical Optics Express</i> , 2018 , 9, 1229-1231	3.5	1
12	Characterisation of Au nanorod dynamics in optical tweezers via localised surface plasmon resonance spectroscopy 2014 ,		1

11	Thermoradiative Power Conversion from HgCdTe Photodiodes and Their Current-Voltage Characteristics. <i>ACS Photonics</i> ,	6.3	1
10	Insight into the growth behaviors of MoS ₂ nanograms influenced by step edges and atomic structure of the substrate. <i>Nano Research</i> ,1	10	0
9	Biomedical Optics Express feature issue introduction: optical trapping applications (OTA). <i>Biomedical Optics Express</i> , 2015 , 6, 4273-4	3.5	
8	Using double chirping to minimise absorption in lossy broadband dielectric reflectors. <i>Optical Materials Express</i> , 2018 , 8, 1827	2.6	
7	Phase transformations in CdSe quantum dots induced by reaction time. <i>Materials Letters</i> , 2015 , 141, 67-69	3.3	
6	Wavelength selective filter based on polarization control in a photonic bandgap structure with a defect. <i>Optics Express</i> , 2011 , 19, 25643-50	3.3	
5	Near-field optical manipulation with cavity enhanced evanescent fields 2006 , 6131, 142		
4	Dielectric resonator: cavity-enhanced optical manipulation in the near field 2006 , 6326, 74		
3	Differential Interference Contrast-Based Interrogation of Plasmonic Gold Nanohole Arrays for Label-Free Imaging Sensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 10657-10664	5.6	
2	Porous Silicon: Vertical Integration of Cell-Laden Hydrogels with Bioinspired Photonic Crystal Membranes (Adv. Mater. Interfaces 23/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870115	4.6	
1	"Designing high-performance nighttime thermoradiative systems for harvesting energy from outer space" by Zhang et al.: comment. <i>Optics Letters</i> , 2021 , 46, 5124	3	