Prashant Nagpal

List of Publications by Citations

Source: https://exaly.com/author-pdf/6207710/prashant-nagpal-publications-by-citations.pdf
Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	3,050 citations	23 h-index	55 g-index
64 ext. papers	3,428 ext. citations	9.2 avg, IF	5.32 L-index

#	Paper	IF	Citations
60	Ultrasmooth patterned metals for plasmonics and metamaterials. *Science*, **2009**, 325, 594-7	33.3	668
59	Engineering metallic nanostructures for plasmonics and nanophotonics. *Reports on Progress in Physics*, **2012**, 75, 036501	14.4	366
58	Role of mid-gap states in charge transport and photoconductivity in semiconductor nanocrystal films. *Nature Communications*, **2011**, 2, 486	17.4	212
57	Photoexcited quantum dots for killing multidrug-resistant bacteria. *Nature Materials*, **2016**, 15, 529-34	27	179
56	Template-stripped smooth Ag nanohole arrays with silica shells for surface plasmon resonance biosensing. *ACS Nano*, **2011**, 5, 6244-53	16.7	177
55	Plasmon-enhanced energy transfer for improved upconversion of infrared radiation in doped-lanthanide nanocrystals. *Nano Letters*, **2014**, 14, 101-6	11.5	166
54	Three-dimensional plasmonic nanofocusing. *Nano Letters*, **2010**, 10, 1369-73	11.5	152
53	Efficient low-temperature thermophotovoltaic emitters from metallic photonic crystals. *Nano Letters*, **2008**, 8, 3238-43	11.5	110
52	Single-crystalline silver films for plasmonics. *Advanced Materials*, **2012**, 24, 3988-92	24	100
51	Spectral dependence of nanocrystal photoionization probability: the role of hot-carrier transfer. *ACS Nano*, **2011**, 5, 5045-55	16.7	64
50	Measurement of electronic states of PbS nanocrystal quantum dots using scanning tunneling spectroscopy: the role of parity selection rules in optical absorption. *Physical Review Letters*, **2013**, 110, 127406	7.4	63
49	Potentiating antibiotics in drug-resistant clinical isolates via stimuli-activated superoxide generation. *Science Advances*, **2017**, 3, e1701776	14.3	62
48	Photocatalysis deconstructed: design of a new selective catalyst for artificial photosynthesis. *Nano Letters*, **2014**, 14, 597-603	11.5	56
47	Nanorg Microbial Factories: Light-Driven Renewable Biochemical Synthesis Using Quantum Dot-Bacteria Nanobiohybrids. *Journal of the American Chemical Society*, **2019**, 141, 10272-10282	16.4	51
46	Fabrication of carbon/refractory metal nanocomposites as thermally stable metallic photonic crystals. *Journal of Materials Chemistry*, **2011**, 21, 10836		47
45	Split-Wedge Antennas with Sub-5 nm Gaps for Plasmonic Nanofocusing. *Nano Letters*, **2016**, 16, 7849-7856	11.5	45
44	Thermally Stable Organic–Inorganic Hybrid Photoresists for Fabrication of Photonic Band Gap Structures with Direct Laser Writing. *Advanced Materials*, **2008**, 20, 606-610	24	44

43	Observation of Thermal Beaming from Tungsten and Molybdenum Bull Eyes. *ACS Photonics*, **2016**, 3, 494-500	6.3	42
42	Copper plasmonics and catalysis: role of electron-phonon interactions in dephasing localized surface plasmons. *Nanoscale*, **2014**, 6, 12450-7	7.7	38
41	Plasmonic nanofocusing with a metallic pyramid and an integrated C-shaped aperture. *Scientific Reports*, **2013**, 3, 1857	4.9	35
40	Fabrication of smooth patterned structures of refractory metals, semiconductors, and oxides via template stripping. *ACS Applied Materials & Interfaces*, **2013**, 5, 9701-8	9.5	26
39	Photon upconversion towards applications in energy conversion and bioimaging. *Progress in Surface Science*, **2017**, 92, 281-316	6.6	25
38	Doping of wide-bandgap titanium-dioxide nanotubes: optical, electronic and magnetic properties. *Nanoscale*, **2014**, 6, 10839-49	7.7	25
37	Designing Superoxide-Generating Quantum Dots for Selective Light-Activated Nanotherapy. *Frontiers in Chemistry*, **2018**, 6, 46	5	23
36	Improved dielectric functions in metallic films obtained via template stripping. *Applied Physics Letters*, **2012**, 100, 081105	3.4	22
35	Near-Infrared-Light-Triggered Antimicrobial Indium Phosphide Quantum Dots. *Angewandte Chemie - International Edition*, **2019**, 58, 11414-11418	16.4	18
34	Quantum dot therapeutics: a new class of radical therapies. *Journal of Biological Engineering*, **2019**, 13, 48	6.3	15
33	Assessing Different Reactive Oxygen Species as Potential Antibiotics: Selectivity of Intracellular Superoxide Generation Using Quantum Dots.. *ACS Applied Bio Materials*, **2018**, 1, 529-537	4.1	15
32	Multiple Energy Exciton Shelves in Quantum-Dot-DNA Nanobioelectronics. *Journal of Physical Chemistry Letters*, **2014**, 5, 3909-13	6.4	15
31	Standalone anion- and co-doped titanium dioxide nanotubes for photocatalytic and photoelectrochemical solar-to-fuel conversion. *Nanoscale*, **2016**, 8, 17496-17505	7.7	14
30	Direct conjugation of DNA to quantum dots for scalable assembly of photoactive thin films. *RSC Advances*, **2014**, 4, 8064	3.7	12
29	Transparent conducting oxide nanotubes. *Nanotechnology*, **2014**, 25, 385202	3.4	11
28	Quantum Point Contact Single-Nucleotide Conductance for DNA and RNA Sequence Identification. *ACS Nano*, **2017**, 11, 11169-11181	16.7	10
27	Pseudo-direct bandgap transitions in silicon nanocrystals: effects on optoelectronics and thermoelectrics. *Nanoscale*, **2014**, 6, 14643-7	7.7	10
26	ROS mediated selection for increased NADPH availability in Escherichia coli. *Biotechnology and Bioengineering*, **2017**, 114, 2685-2689	4.9	9

25	Effect of plasmon-enhancement on photophysics in upconverting nanoparticles. *Optics Express*, **2014**, 22, 11516-27	3.3	9
24	High-Throughput Block Optical DNA Sequence Identification. *Small*, **2018**, 14, 1703165	11	9
23	Low Exciton-Phonon Coupling, High Charge Carrier Mobilities, and Multiexciton Properties in Two-Dimensional Lead, Silver, Cadmium, and Copper Chalcogenide Nanostructures. *Journal of Physical Chemistry Letters*, **2014**, 5, 4291-7	6.4	8
22	Titanium dioxide nanotube membranes for solar energy conversion: effect of deep and shallow dopants. *Physical Chemistry Chemical Physics*, **2017**, 19, 10042-10050	3.6	7
21	Conformational Smear Characterization and Binning of Single-Molecule Conductance Measurements for Enhanced Molecular Recognition. *Journal of the American Chemical Society*, **2017** , 139, 15420-15428	16.4	7
20	Long-range energy transfer in self-assembled quantum dot-DNA cascades. *Nanoscale*, **2015**, 7, 18435-40	7.7	7
19	Photophysical Color Tuning for Photon Upconverting Nanoparticles. *ACS Applied Materials & Interfaces*, **2019**, 11, 27011-27016	9.5	7
18	Photoexcited Quantum Dots as Efficacious and Nontoxic Antibiotics in an Animal Model. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1863-1875	5.5	7
17	Tuning Ternary ZnCdTe Quantum Dot Composition: Engineering Electronic States for Light-Activated Superoxide Generation as a Therapeutic against Multidrug-Resistant Bacteria. *ACS Biomaterials Science and Engineering*, **2019**, 5, 3111-3118	5.5	6
16	Measurements of single nucleotide electronic states as nanoelectronic fingerprints for identification of DNA nucleobases, their protonated and unprotonated states, isomers, and tautomers. *Journal of Physical Chemistry B*, **2015**, 119, 4968-74	3.4	6
15	Isolating the Transcriptomic Response to Superoxide Generation from Cadmium Chalcogenide Quantum Dots. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4206-4218	5.5	6
14	Single Nucleobase Identification Using Biophysical Signatures from Nanoelectronic Quantum Tunneling. *Small*, **2017**, 13, 1603033	11	5
13	Charge transport through exciton shelves in cadmium chalcogenide quantum dot-DNA nano-bioelectronic thin films. *Applied Physics Letters*, **2015**, 106, 083109	3.4	5
12	Air-pressure tunable depletion width, rectification behavior, and charge conduction in oxide nanotubes. *ACS Applied Materials & Interfaces*, **2015**, 7, 2153-9	9.5	5
11	Nucleotide and structural label identification in single RNA molecules with quantum tunneling spectroscopy. *Chemical Science*, **2019**, 10, 1052-1063	9.4	4
10	Air-gating and chemical-gating in transistors and sensing devices made from hollow TiO2 semiconductor nanotubes. *Nanotechnology*, **2015**, 26, 295203	3.4	4
9	Titanium-dioxide nanotube p-n homojunction diode. *Applied Physics Letters*, **2014**, 105, 263501	3.4	4
8	BOCS: DNA k-mer content and scoring for rapid genetic biomarker identification at low coverage. *Computers in Biology and Medicine*, **2019**, 110, 196-206	7	3

7	Diagnostic Optical Sequencing. *ACS Applied Materials & Interfaces*, **2019**, 11, 35587-35596	9.5	2
6	Analysis of Identification Method for Bacterial Species and Antibiotic Resistance Genes Using Optical Data From DNA Oligomers. *Frontiers in Microbiology*, **2020**, 11, 257	5.7	2
5	Gold nanoclusters cause selective light-driven biochemical catalysis in living nano-biohybrid organisms. *Nanoscale Advances*, **2020**, 2, 2363-2370	5.1	2
4	Co-doping metal oxide nanotubes: superlinear photoresponse and multianalyte sensing. *Materials Research Express*, **2019**, 6, 1150b1	1.7	2
3	Photoactivated Indium Phosphide Quantum Dots Treat Multidrug-Resistant Bacterial Abscesses. *ACS Applied Materials & Interfaces*, **2021**, 13, 30404-30419	9.5	2
2	Light-activated quantum dot potentiation of antibiotics to treat drug-resistant bacterial biofilms. *Nanoscale Advances*, **2021**, 3, 2782-2786	5.1	2
1	Near-Infrared-Light-Triggered Antimicrobial Indium Phosphide Quantum Dots. *Angewandte Chemie*, **2019**, 131, 11536-11540	3.6	0