

Prashant Nagpal

List of Publications by Year in Descending Order

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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 | Photoactivated Indium Phosphide Quantum Dots Treat Multidrug-Resistant Bacterial Abscesses. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30404-30419 | 9.5 | 2 |
| 59 | Photoexcited Quantum Dots as Efficacious and Nontoxic Antibiotics in an Animal Model. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1863-1875 | 5.5 | 7 |
| 58 | Light-activated quantum dot potentiation of antibiotics to treat drug-resistant bacterial biofilms. <i>Nanoscale Advances</i> , 2021 , 3, 2782-2786 | 5.1 | 2 |
| 57 | Analysis of Identification Method for Bacterial Species and Antibiotic Resistance Genes Using Optical Data From DNA Oligomers. <i>Frontiers in Microbiology</i> , 2020 , 11, 257 | 5.7 | 2 |
| 56 | Gold nanoclusters cause selective light-driven biochemical catalysis in living nano-biohybrid organisms. <i>Nanoscale Advances</i> , 2020 , 2, 2363-2370 | 5.1 | 2 |
| 55 | Diagnostic Optical Sequencing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35587-35596 | 9.5 | 2 |
| 54 | Nucleotide and structural label identification in single RNA molecules with quantum tunneling spectroscopy. <i>Chemical Science</i> , 2019 , 10, 1052-1063 | 9.4 | 4 |
| 53 | Near-Infrared-Light-Triggered Antimicrobial Indium Phosphide Quantum Dots. <i>Angewandte Chemie</i> , 2019 , 131, 11536-11540 | 3.6 | 0 |
| 52 | Nanorg Microbial Factories: Light-Driven Renewable Biochemical Synthesis Using Quantum Dot-Bacteria Nanobiohybrids. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10272-10282 | 16.4 | 51 |
| 51 | Near-Infrared-Light-Triggered Antimicrobial Indium Phosphide Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11414-11418 | 16.4 | 18 |
| 50 | Quantum dot therapeutics: a new class of radical therapies. <i>Journal of Biological Engineering</i> , 2019 , 13, 48 | 6.3 | 15 |
| 49 | BOCS: DNA k-mer content and scoring for rapid genetic biomarker identification at low coverage. <i>Computers in Biology and Medicine</i> , 2019 , 110, 196-206 | 7 | 3 |
| 48 | Tuning Ternary ZnCdTe Quantum Dot Composition: Engineering Electronic States for Light-Activated Superoxide Generation as a Therapeutic against Multidrug-Resistant Bacteria. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3111-3118 | 5.5 | 6 |
| 47 | Isolating the Transcriptomic Response to Superoxide Generation from Cadmium Chalcogenide Quantum Dots. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4206-4218 | 5.5 | 6 |
| 46 | Photophysical Color Tuning for Photon Upconverting Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27011-27016 | 9.5 | 7 |
| 45 | Co-doping metal oxide nanotubes: superlinear photoresponse and multianalyte sensing. <i>Materials Research Express</i> , 2019 , 6, 1150b1 | 1.7 | 2 |
| 44 | Assessing Different Reactive Oxygen Species as Potential Antibiotics: Selectivity of Intracellular Superoxide Generation Using Quantum Dots.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 529-537 | 4.1 | 15 |

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|----|---|------|-----|
| 43 | Designing Superoxide-Generating Quantum Dots for Selective Light-Activated Nanotherapy. <i>Frontiers in Chemistry</i> , 2018 , 6, 46 | 5 | 23 |
| 42 | High-Throughput Block Optical DNA Sequence Identification. <i>Small</i> , 2018 , 14, 1703165 | 11 | 9 |
| 41 | Single Nucleobase Identification Using Biophysical Signatures from Nanoelectronic Quantum Tunneling. <i>Small</i> , 2017 , 13, 1603033 | 11 | 5 |
| 40 | Titanium dioxide nanotube membranes for solar energy conversion: effect of deep and shallow dopants. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10042-10050 | 3.6 | 7 |
| 39 | Quantum Point Contact Single-Nucleotide Conductance for DNA and RNA Sequence Identification. <i>ACS Nano</i> , 2017 , 11, 11169-11181 | 16.7 | 10 |
| 38 | Potentiating antibiotics in drug-resistant clinical isolates via stimuli-activated superoxide generation. <i>Science Advances</i> , 2017 , 3, e1701776 | 14.3 | 62 |
| 37 | Photon upconversion towards applications in energy conversion and bioimaging. <i>Progress in Surface Science</i> , 2017 , 92, 281-316 | 6.6 | 25 |
| 36 | Conformational Smear Characterization and Binning of Single-Molecule Conductance Measurements for Enhanced Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15420-15428 | 16.4 | 7 |
| 35 | ROS mediated selection for increased NADPH availability in Escherichia coli. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2685-2689 | 4.9 | 9 |
| 34 | Split-Wedge Antennas with Sub-5 nm Gaps for Plasmonic Nanofocusing. <i>Nano Letters</i> , 2016 , 16, 7849-7856 | 16.5 | 45 |
| 33 | Standalone anion- and co-doped titanium dioxide nanotubes for photocatalytic and photoelectrochemical solar-to-fuel conversion. <i>Nanoscale</i> , 2016 , 8, 17496-17505 | 7.7 | 14 |
| 32 | Photoexcited quantum dots for killing multidrug-resistant bacteria. <i>Nature Materials</i> , 2016 , 15, 529-34 | 27 | 179 |
| 31 | Observation of Thermal Beaming from Tungsten and Molybdenum Bullseyes. <i>ACS Photonics</i> , 2016 , 3, 494-500 | 6.3 | 42 |
| 30 | Air-gating and chemical-gating in transistors and sensing devices made from hollow TiO ₂ semiconductor nanotubes. <i>Nanotechnology</i> , 2015 , 26, 295203 | 3.4 | 4 |
| 29 | Charge transport through exciton shelves in cadmium chalcogenide quantum dot-DNA nano-bioelectronic thin films. <i>Applied Physics Letters</i> , 2015 , 106, 083109 | 3.4 | 5 |
| 28 | Measurements of single nucleotide electronic states as nanoelectronic fingerprints for identification of DNA nucleobases, their protonated and unprotonated states, isomers, and tautomers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4968-74 | 3.4 | 6 |
| 27 | Long-range energy transfer in self-assembled quantum dot-DNA cascades. <i>Nanoscale</i> , 2015 , 7, 18435-40 | 7.7 | 7 |
| 26 | Air-pressure tunable depletion width, rectification behavior, and charge conduction in oxide nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2153-9 | 9.5 | 5 |

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|----|---|------|-----|
| 25 | Plasmon-enhanced energy transfer for improved upconversion of infrared radiation in doped-lanthanide nanocrystals. <i>Nano Letters</i> , 2014 , 14, 101-6 | 11.5 | 166 |
| 24 | Multiple Energy Exciton Shelves in Quantum-Dot-DNA Nanobioelectronics. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3909-13 | 6.4 | 15 |
| 23 | Pseudo-direct bandgap transitions in silicon nanocrystals: effects on optoelectronics and thermoelectrics. <i>Nanoscale</i> , 2014 , 6, 14643-7 | 7.7 | 10 |
| 22 | Copper plasmonics and catalysis: role of electron-phonon interactions in dephasing localized surface plasmons. <i>Nanoscale</i> , 2014 , 6, 12450-7 | 7.7 | 38 |
| 21 | Direct conjugation of DNA to quantum dots for scalable assembly of photoactive thin films. <i>RSC Advances</i> , 2014 , 4, 8064 | 3.7 | 12 |
| 20 | Doping of wide-bandgap titanium-dioxide nanotubes: optical, electronic and magnetic properties. <i>Nanoscale</i> , 2014 , 6, 10839-49 | 7.7 | 25 |
| 19 | Photocatalysis deconstructed: design of a new selective catalyst for artificial photosynthesis. <i>Nano Letters</i> , 2014 , 14, 597-603 | 11.5 | 56 |
| 18 | Effect of plasmon-enhancement on photophysics in upconverting nanoparticles. <i>Optics Express</i> , 2014 , 22, 11516-27 | 3.3 | 9 |
| 17 | Transparent conducting oxide nanotubes. <i>Nanotechnology</i> , 2014 , 25, 385202 | 3.4 | 11 |
| 16 | Low Exciton-Phonon Coupling, High Charge Carrier Mobilities, and Multiexciton Properties in Two-Dimensional Lead, Silver, Cadmium, and Copper Chalcogenide Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4291-7 | 6.4 | 8 |
| 15 | Titanium-dioxide nanotube p-n homojunction diode. <i>Applied Physics Letters</i> , 2014 , 105, 263501 | 3.4 | 4 |
| 14 | Plasmonic nanofocusing with a metallic pyramid and an integrated C-shaped aperture. <i>Scientific Reports</i> , 2013 , 3, 1857 | 4.9 | 35 |
| 13 | Fabrication of smooth patterned structures of refractory metals, semiconductors, and oxides via template stripping. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9701-8 | 9.5 | 26 |
| 12 | Measurement of electronic states of PbS nanocrystal quantum dots using scanning tunneling spectroscopy: the role of parity selection rules in optical absorption. <i>Physical Review Letters</i> , 2013 , 110, 127406 | 7.4 | 63 |
| 11 | Single-crystalline silver films for plasmonics. <i>Advanced Materials</i> , 2012 , 24, 3988-92 | 24 | 100 |
| 10 | Engineering metallic nanostructures for plasmonics and nanophotonics. <i>Reports on Progress in Physics</i> , 2012 , 75, 036501 | 14.4 | 366 |
| 9 | Improved dielectric functions in metallic films obtained via template stripping. <i>Applied Physics Letters</i> , 2012 , 100, 081105 | 3.4 | 22 |
| 8 | Template-stripped smooth Ag nanohole arrays with silica shells for surface plasmon resonance biosensing. <i>ACS Nano</i> , 2011 , 5, 6244-53 | 16.7 | 177 |

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|---|---|------|-----|
| 7 | Spectral dependence of nanocrystal photoionization probability: the role of hot-carrier transfer. <i>ACS Nano</i> , 2011 , 5, 5045-55 | 16.7 | 64 |
| 6 | Fabrication of carbon/refractory metal nanocomposites as thermally stable metallic photonic crystals. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10836 | | 47 |
| 5 | Role of mid-gap states in charge transport and photoconductivity in semiconductor nanocrystal films. <i>Nature Communications</i> , 2011 , 2, 486 | 17.4 | 212 |
| 4 | Three-dimensional plasmonic nanofocusing. <i>Nano Letters</i> , 2010 , 10, 1369-73 | 11.5 | 152 |
| 3 | Ultrasmooth patterned metals for plasmonics and metamaterials. <i>Science</i> , 2009 , 325, 594-7 | 33.3 | 668 |
| 2 | Efficient low-temperature thermophotovoltaic emitters from metallic photonic crystals. <i>Nano Letters</i> , 2008 , 8, 3238-43 | 11.5 | 110 |
| 1 | Thermally Stable Organic/Inorganic Hybrid Photoresists for Fabrication of Photonic Band Gap Structures with Direct Laser Writing. <i>Advanced Materials</i> , 2008 , 20, 606-610 | 24 | 44 |