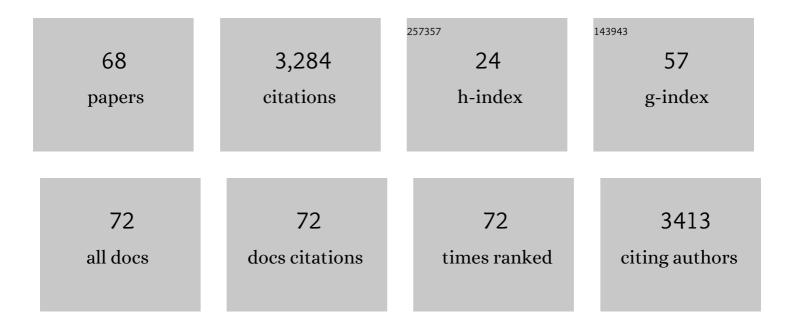
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Energetic characteristics of hydrogenated amorphous silicon nanoparticles. Chemical Engineering Journal, 2022, 430, 133140. | 6.6 | 13 |
| 2 | Controlled growth of silicon particles via plasma pulsing and their application as battery material. Journal Physics D: Applied Physics, 2022, 55, 094002. | 1.3 | 7 |
| 3 | Nanocrystalline Yttria-Stabilized Zirconia Ceramics for Cranial Window Applications. ACS Applied Bio Materials, 2022, 5, 2664-2675. | 2.3 | 0 |
| 4 | Enhanced thermoelectric ZT in the tails of the Fermi distribution via electron filtering by nanoinclusions: Model electron transport in nanocomposites. Physical Review Materials, 2022, 6, . | 0.9 | 1 |
| 5 | Interaction Between a Low-Temperature Plasma and Graphene: An <i>in situ</i> Raman Thermometry Study. Physical Review Applied, 2021, 15, . | 1.5 | 3 |
| 6 | Application of machine learning for the estimation of electron energy distribution from optical emission spectra. Journal Physics D: Applied Physics, 2021, 54, 265202. | 1.3 | 5 |
| 7 | Laserâ€induced cavitation in plasmonic nanoparticle solutions: A comparative study between gold and titanium nitride. Journal of Biomedical Materials Research - Part A, 2021, 109, 2483-2492. | 2.1 | 3 |
| 8 | Air‧table Silicon Nanocrystalâ€Based Photon Upconversion. Advanced Optical Materials, 2021, 9, 2100453. | 3.6 | 11 |
| 9 | Tuning the reactivity and energy release rate of I2O5 based ternary thermite systems. Combustion and Flame, 2021, 228, 210-217. | 2.8 | 23 |
| 10 | Efficient facemask decontamination via forced ozone convection. Scientific Reports, 2021, 11, 12263. | 1.6 | 7 |
| 11 | Bidirectional triplet exciton transfer between silicon nanocrystals and perylene. Chemical Science, 2021, 12, 6737-6746. | 3.7 | 19 |
| 12 | Silicon Nanoparticles for the Reactivity and Energetic Density Enhancement of Energetic-Biocidal Mesoparticle Composites. ACS Applied Materials & Interfaces, 2021, 13, 458-467. | 4.0 | 21 |
| 13 | Thermal Properties of the Binaryâ€Filler Hybrid Composites with Graphene and Copper Nanoparticles. Advanced Functional Materials, 2020, 30, 1904008. | 7.8 | 179 |
| 14 | Synthesis, characterization, and cytocompatibility of yttria stabilized zirconia nanopowders for creating a window to the brain. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 925-938. | 1.6 | 10 |
| 15 | Achieving spin-triplet exciton transfer between silicon and molecular acceptors for photon upconversion. Nature Chemistry, 2020, 12, 137-144. | 6.6 | 85 |
| 16 | Harnessing Plasma Environments for Ammonia Catalysis: Mechanistic Insights from Experiments and Large-Scale <i>Ab Initio</i> Molecular Dynamics. Journal of Physical Chemistry Letters, 2020, 11, 10469-10475. | 2.1 | 22 |
| 17 | Critical barriers to the large scale commercialization of silicon-containing batteries. Nanoscale Advances, 2020, 2, 4368-4389. | 2.2 | 18 |
| 18 | Spray pyrolysis of yttria-stabilized zirconia nanoparticles and their densification into bulk transparent windows. Journal of Nanoparticle Research, 2020, 22, 1. | 0.8 | 4 |

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|----|---|-----|-----------|
| 19 | Electron emission from particles strongly affects the electron energy distribution in dusty plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, . | 0.9 | 14 |
| 20 | Low temperature radical initiated hydrosilylation of silicon quantum dots. Faraday Discussions, 2020, 222, 190-200. | 1.6 | 3 |
| 21 | Stabilizing the Plasmonic Response of Titanium Nitride Nanocrystals with a Silicon Oxynitride Shell: Implications for Refractory Optical Materials. ACS Applied Nano Materials, 2020, 3, 4504-4511. | 2.4 | 10 |
| 22 | Giant low-temperature anharmonicity in silicon nanocrystals. Physical Review Materials, 2020, 4, . | 0.9 | 3 |
| 23 | Photochemistry of Plasmonic Titanium Nitride Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 21796-21804. | 1.5 | 33 |
| 24 | Silicon-Core–Carbon-Shell Nanoparticles for Lithium-Ion Batteries: Rational Comparison between Amorphous and Graphitic Carbon Coatings. Nano Letters, 2019, 19, 7236-7245. | 4.5 | 75 |
| 25 | Structural homogenization and cation ordering in CZTS films during sulfurization as probed via in-situ Raman. Thin Solid Films, 2019, 684, 21-30. | 0.8 | 10 |
| 26 | Plasmonic Core–Shell Silicon Carbide–Graphene Nanoparticles. ACS Omega, 2019, 4, 10089-10093. | 1.6 | 10 |
| 27 | Plasma Synthesis of Nanomaterials. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 229-255. | 0.1 | Ο |
| 28 | Graphitization of Carbon Particles in a Non-thermal Plasma Reactor. Plasma Chemistry and Plasma Processing, 2018, 38, 683-694. | 1.1 | 15 |
| 29 | Silicon-carbon composites for lithium-ion batteries: A comparative study of different carbon deposition approaches. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, . | 0.6 | 15 |
| 30 | On the nonâ€ŧhermal plasma synthesis of nickel nanoparticles. Plasma Processes and Polymers, 2018, 15, 1700104. | 1.6 | 27 |
| 31 | Langmuir probe characterisation of an Ar–H ₂ non-thermal plasma loaded with carbon nanoparticles. Plasma Sources Science and Technology, 2018, 27, 104003. | 1.3 | 7 |
| 32 | Plasmonic Core–Shell Zirconium Nitride–Silicon Oxynitride Nanoparticles. ACS Energy Letters, 2018, 3, 2349-2356. | 8.8 | 51 |
| 33 | Thermoelectric performance of silicon with oxide nanoinclusions. Materials Research Letters, 2018, 6, 419-425. | 4.1 | 7 |
| 34 | A Non-Thermal Plasma Route to Plasmonic TiN Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 2316-2322. | 1.5 | 82 |
| 35 | Oxide-induced grain growth in CZTS nanoparticle coatings. RSC Advances, 2017, 7, 25575-25581. | 1.7 | 4 |
| 36 | Colloidal Synthesis of Silicon–Carbon Composite Material for Lithiumâ€lon Batteries. Angewandte Chemie, 2017, 129, 10920-10925. | 1.6 | 36 |

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|----|---|-----|-----------|
| 37 | Colloidal Synthesis of Silicon–Carbon Composite Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 10780-10785. | 7.2 | 94 |
| 38 | Monitoring non-thermal plasma processes for nanoparticle synthesis. Journal Physics D: Applied Physics, 2017, 50, 373003. | 1.3 | 17 |
| 39 | (Invited) Non-Thermal Plasmas for the Production of Sustainable Functional Materials. ECS Transactions, 2017, 77, 63-69. | 0.3 | Ο |
| 40 | <i>In situ</i> monitoring of hydrogen desorption from silicon nanoparticles dispersed in a nonthermal plasma. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, . | 0.6 | 11 |
| 41 | Grain-to-Grain Compositional Variations and Phase Segregation in Copper–Zinc–Tin–Sulfide Films. ACS Applied Materials & Interfaces, 2016, 8, 22971-22976. | 4.0 | 13 |
| 42 | Tin nanoparticles as an effective conductive additive in silicon anodes. Scientific Reports, 2016, 6, 30952. | 1.6 | 21 |
| 43 | Tin disulfide segregation on CZTS films sulfurized at high pressure. Materials Letters, 2016, 165, 41-44. | 1.3 | 14 |
| 44 | Core/shell silicon/polyaniline particles via in-flight plasma-induced polymerization. Journal Physics D: Applied Physics, 2015, 48, 314009. | 1.3 | 11 |
| 45 | Spray pyrolysis of yolk–shell particles and their use for anodes in lithium-ion batteries. Electrochemistry Communications, 2015, 53, 1-5. | 2.3 | 12 |
| 46 | Hollow silicon carbide nanoparticles from a non-thermal plasma process. Journal of Applied Physics, 2015, 117, . | 1.1 | 37 |
| 47 | A stable silicon anode based on the uniform dispersion of quantum dots in a polymer matrix. Journal of Power Sources, 2015, 273, 638-644. | 4.0 | 33 |
| 48 | On the nucleation and crystallization of nanoparticles in continuous-flow nonthermal plasma reactors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, . | 0.6 | 40 |
| 49 | Low activation energy for the crystallization of amorphous silicon nanoparticles. Nanoscale, 2014, 6, 1286-1294. | 2.8 | 44 |
| 50 | Spray pyrolysis of CZTS nanoplatelets. Chemical Communications, 2014, 50, 11366-11369. | 2.2 | 8 |
| 51 | Characterization of Si–Ge alloy nanocrystals produced in a non-thermal plasma reactor. Materials Letters, 2013, 101, 76-79. | 1.3 | 21 |
| 52 | Synthesis, properties, and applications of silicon nanocrystals. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 020801. | 0.6 | 113 |
| 53 | Single precursor synthesis of copper sulfide nanocrystals using aerosol spray pyrolysis. MRS Communications, 2013, 3, 57-60. | 0.8 | 1 |
| 54 | Silicon Quantum Dots-Carbon Nanotube Composite as Anode Material for Lithium Ion Battery. Materials Research Society Symposia Proceedings, 2013, 1540, 3801. | 0.1 | 0 |

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|----|---|------|-----------|
| 55 | Crystallization Kinetics of Plasma-Produced Amorphous Silicon Nanoparticles. Materials Research Society Symposia Proceedings, 2013, 1536, 213-218. | 0.1 | 2 |
| 56 | Silicon nanocrystal production through non-thermal plasma synthesis: a comparative study between silicon tetrachloride and silane precursors. Nanotechnology, 2012, 23, 255604. | 1.3 | 65 |
| 57 | Selective nanoparticle heating: Another form of nonequilibrium in dusty plasmas. Physical Review E, 2009, 79, 026405. | 0.8 | 121 |
| 58 | Plasma synthesis of group IV quantum dots for luminescence and photovoltaic applications. Pure and Applied Chemistry, 2008, 80, 1901-1908. | 0.9 | 24 |
| 59 | Plasmaâ€Assisted Synthesis of Silicon Nanocrystal Inks. Advanced Materials, 2007, 19, 2513-2519. | 11.1 | 242 |
| 60 | Inside Front Cover: Plasma-Assisted Synthesis of Silicon Nanocrystal Inks (Adv. Mater. 18/2007). Advanced Materials, 2007, 19, NA-NA. | 11.1 | 0 |
| 61 | Silicon nanocrystals with ensemble quantum yields exceeding 60%. Applied Physics Letters, 2006, 88, 233116. | 1.5 | 391 |
| 62 | Plasma synthesis and liquid-phase surface passivation of brightly luminescent Si nanocrystals. Journal of Luminescence, 2006, 121, 327-334. | 1.5 | 98 |
| 63 | Deposition of vertically oriented carbon nanofibers in atmospheric pressure radio frequency discharge. Journal of Applied Physics, 2006, 99, 024310. | 1.1 | 18 |
| 64 | High-Yield Synthesis of Luminescent Silicon Quantum Dots in a Continuous Flow Nonthermal Plasma Reactor. Materials Research Society Symposia Proceedings, 2005, 862, 431. | 0.1 | 1 |
| 65 | High-Yield Plasma Synthesis of Luminescent Silicon Nanocrystals. Nano Letters, 2005, 5, 655-659. | 4.5 | 668 |
| 66 | Two-dimensional space-time-resolved emission spectroscopy on atmospheric pressure glows in helium with impurities. Journal of Applied Physics, 2004, 96, 1835-1839. | 1.1 | 40 |
| 67 | Effects of current limitation through the dielectric in atmospheric pressure glows in helium. Journal Physics D: Applied Physics, 2004, 37, 1021-1030. | 1.3 | 137 |
| 68 | Radial structure of a low-frequency atmospheric-pressure glow discharge in helium. Applied Physics Letters, 2002, 80, 1722-1724. | 1.5 | 150 |