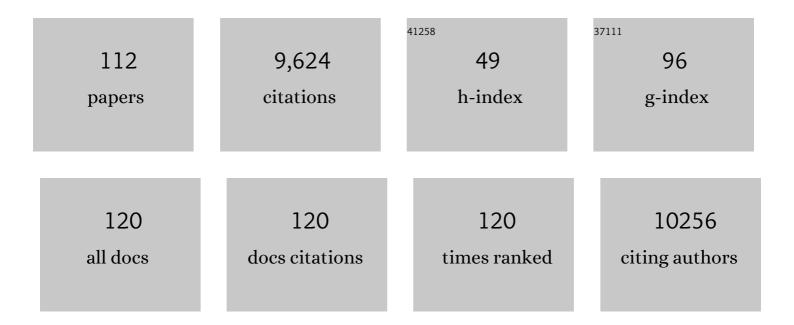
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Chemical Structure of a Molecule Resolved by Atomic Force Microscopy. Science, 2009, 325, 1110-1114. | 6.0 | 1,489 |
| 2 | Current-Induced Hydrogen Tautomerization and Conductance Switching of Naphthalocyanine Molecules. Science, 2007, 317, 1203-1206. | 6.0 | 621 |
| 3 | Physicochemical Evaluation of the Hot-Injection Method, a Synthesis Route for Monodisperse Nanocrystals. Small, 2005, 1, 1152-1162. | 5.2 | 438 |
| 4 | Biphenylene network: A nonbenzenoid carbon allotrope. Science, 2021, 372, 852-856. | 6.0 | 379 |
| 5 | Ultra-narrow metallic armchair graphene nanoribbons. Nature Communications, 2015, 6, 10177. | 5.8 | 359 |
| 6 | Electrochemical Resolution of 15 Oxidation States for Monolayer Protected Gold Nanoparticles. Journal of the American Chemical Society, 2003, 125, 6644-6645. | 6.6 | 331 |
| 7 | Measuring the Charge State of an Adatom with Noncontact Atomic Force Microscopy. Science, 2009, 324, 1428-1431. | 6.0 | 317 |
| 8 | Charge transport through molecular switches. Journal of Physics Condensed Matter, 2010, 22, 133001. | 0.7 | 250 |
| 9 | Topological frustration induces unconventional magnetism in a nanographene. Nature Nanotechnology, 2020, 15, 22-28. | 15.6 | 227 |
| 10 | Electronic Coupling and Exciton Energy Transfer in CdTe Quantum-Dot Molecules. Journal of the American Chemical Society, 2006, 128, 10436-10441. | 6.6 | 226 |
| 11 | Topological states in engineered atomic lattices. Nature Physics, 2017, 13, 668-671. | 6.5 | 225 |
| 12 | Topological superconductivity in a van der Waals heterostructure. Nature, 2020, 588, 424-428. | 13.7 | 211 |
| 13 | Electron-conducting quantum dot solids: novel materials based on colloidal semiconductor nanocrystals. Chemical Society Reviews, 2005, 34, 299. | 18.7 | 199 |
| 14 | Suppression of electron–vibron coupling in graphene nanoribbons contacted via a single atom. Nature Communications, 2013, 4, 2023. | 5.8 | 177 |
| 15 | Synthesis and Stability of Monolayer-Protected Au38 Clusters. Journal of the American Chemical Society, 2008, 130, 11049-11055. | 6.6 | 168 |
| 16 | Intermolecular Contrast in Atomic Force Microscopy Images without Intermolecular Bonds. Physical Review Letters, 2014, 113, 186102. | 2.9 | 129 |
| 17 | Molecular Self-Assembly on Graphene on SiO ₂ and h-BN Substrates. Nano Letters, 2013, 13, 3199-3204. | 4.5 | 117 |
| 18 | Density of States Measured by Scanning-Tunneling Spectroscopy Sheds New Light on the Optical Transitions in PbSe Nanocrystals, Physical Review Letters, 2005, 95, 086801 | 2.9 | 113 |

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| 19 | Quantised charging of monolayer-protected nanoparticles. Chemical Society Reviews, 2008, 37, 1836. | 18.7 | 108 |
| 20 | Quantitative Atomic Resolution Force Imaging on Epitaxial Graphene with Reactive and Nonreactive AFM Probes. ACS Nano, 2012, 6, 10216-10221. | 7.3 | 104 |
| 21 | Quantum-Confined Electronic States in Atomically Well-Defined Graphene Nanostructures. Physical Review Letters, 2011, 107, 236803. | 2.9 | 100 |
| 22 | Coherent electron–nuclear coupling in oligothiophene molecular wires. Nature Physics, 2010, 6, 975-979. | 6.5 | 98 |
| 23 | Electronic components embedded in a single graphene nanoribbon. Nature Communications, 2017, 8, 119. | 5.8 | 96 |
| 24 | Quantitative Atomic Force Microscopy with Carbon Monoxide Terminated Tips. Physical Review Letters, 2011, 106, 046104. | 2.9 | 93 |
| 25 | Molecular assembly on two-dimensional materials. Nanotechnology, 2017, 28, 082001. | 1.3 | 92 |
| 26 | Templated Self-Assembly and Local Doping of Molecules on Epitaxial Hexagonal Boron Nitride. ACS Nano, 2013, 7, 11121-11128. | 7.3 | 90 |
| 27 | Precursor Geometry Determines the Growth Mechanism in Graphene Nanoribbons. Journal of Physical Chemistry C, 2017, 121, 2896-2904. | 1.5 | 89 |
| 28 | Epitaxial hexagonal boron nitride on Ir(111): A work function template. Physical Review B, 2014, 89, . | 1.1 | 85 |
| 29 | Coupled Yu–Shiba–Rusinov States in Molecular Dimers on NbSe ₂ . Nano Letters, 2018, 18, 2311-2315. | 4.5 | 83 |
| 30 | Variable Orbital Coupling in a Two-Dimensional Quantum-Dot Solid Probed on a Local Scale. Physical Review Letters, 2006, 97, 096803. | 2.9 | 81 |
| 31 | Electronic States at the Graphene–Hexagonal Boron Nitride Zigzag Interface. Nano Letters, 2014, 14, 5128-5132. | 4.5 | 79 |
| 32 | Size-dependent single-particle energy levels and interparticle Coulomb interactions in CdSe quantum dots measured by scanning tunneling spectroscopy. Physical Review B, 2006, 73, . | 1.1 | 76 |
| 33 | Single-Molecule Synthesis and Characterization of Metalâ^'Ligand Complexes by Low-Temperature STM. Nano Letters, 2010, 10, 2475-2479. | 4.5 | 76 |
| 34 | Self-Assembly of Cobalt-Phthalocyanine Molecules on Epitaxial Graphene on Ir(111). Journal of Physical Chemistry C, 2012, 116, 20433-20437. | 1.5 | 74 |
| 35 | Automated structure discovery in atomic force microscopy. Science Advances, 2020, 6, eaay6913. | 4.7 | 71 |
| 36 | Artificial heavy fermions in a van der Waals heterostructure. Nature, 2021, 599, 582-586. | 13.7 | 69 |

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|----|--|-----|-----------|
| 37 | Two-Dimensional Band Structure in Honeycomb Metal–Organic Frameworks. Nano Letters, 2018, 18, 5596-5602. | 4.5 | 66 |
| 38 | Electron Transport in Two-Dimensional Arrays of Gold Nanocrystals Investigated by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2004, 126, 7126-7132. | 6.6 | 64 |
| 39 | Orbital and Charge-Resolved Polaron States in CdSe Dots and Rods Probed by Scanning Tunneling Spectroscopy. Physical Review Letters, 2009, 102, 196401. | 2.9 | 64 |
| 40 | Many-body transitions in a single molecule visualized by scanning tunnelling microscopy. Nature Physics, 2015, 11, 229-234. | 6.5 | 63 |
| 41 | Structure and local variations of the graphene moir $	ilde{A}$ \odot on Ir(111). Physical Review B, 2013, 88, . | 1.1 | 57 |
| 42 | Can scanning tunnelling spectroscopy measure the density of states of semiconductor quantum dots?. Physical Chemistry Chemical Physics, 2006, 8, 3845. | 1.3 | 56 |
| 43 | Sample Corrugation Affects the Apparent Bond Lengths in Atomic Force Microscopy. ACS Nano, 2014, 8, 3006-3014. | 7.3 | 54 |
| 44 | Disk-Generation/Ring-Collection Scanning Electrochemical Microscopy:Â Theory and Application. Analytical Chemistry, 2002, 74, 1972-1978. | 3.2 | 53 |
| 45 | Micro ring–disk electrode probes for scanning electrochemical microscopy. Electrochemistry Communications, 2002, 4, 67-71. | 2.3 | 53 |
| 46 | Controlling quantum dot emission by plasmonic nanoarrays. Optics Express, 2015, 23, 28206. | 1.7 | 53 |
| 47 | Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations. Nano Letters, 2019, 19, 4614-4619. | 4.5 | 53 |
| 48 | Self-Assembly and Orbital Imaging of Metal Phthalocyanines on a Graphene Model Surface. Journal of Physical Chemistry C, 2014, 118, 13320-13325. | 1.5 | 52 |
| 49 | Charge-Transfer-Driven Nonplanar Adsorption of F ₄ TCNQ Molecules on Epitaxial Graphene. ACS Nano, 2017, 11, 4960-4968. | 7.3 | 51 |
| 50 | Electronic states in finite graphene nanoribbons: Effect of charging and defects. Physical Review B, 2013, 88, . | 1.1 | 49 |
| 51 | Electrodeposition at polarisable liquid liquid interfaces: The role of interfacial tension on nucleation kinetics. Physical Chemistry Chemical Physics, 2002, 4, 1067-1071. | 1.3 | 47 |
| 52 | Single-molecule chemistry and physics explored by low-temperature scanning probe microscopy. Chemical Communications, 2011, 47, 9011. | 2.2 | 46 |
| 53 | Topographic and electronic contrast of the graphene moir \tilde{A} © on Ir(111) probed by scanning tunneling microscopy and noncontact atomic force microscopy. Physical Review B, 2011, 83, . | 1.1 | 46 |
| 54 | Membrane activity of ionisable drugs – a task for liquid–liquid electrochemistry?. Electrochemistry Communications, 2003, 5, 473-479. | 2.3 | 45 |

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| 55 | Scanning Tunneling Spectroscopy of Individual PbSe Quantum Dots and Molecular Aggregates Stabilized in an Inert Nanocrystal Matrix. ACS Nano, 2008, 2, 600-606. | 7.3 | 45 |
| 56 | Electrochemistry at Lipid Monolayer-Modified Liquidâ´'Liquid Interfaces as an Improvement to Drug Partitioning Studies. Journal of Physical Chemistry B, 2001, 105, 10884-10892. | 1.2 | 43 |
| 57 | Interfacial Reactivity of Monolayer-Protected Clusters Studied by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2002, 124, 12915-12921. | 6.6 | 39 |
| 58 | Probing Conductivity of Polyelectrolyte/Nanoparticle Composite Films by Scanning Electrochemical Microscopy. Nano Letters, 2003, 3, 1459-1462. | 4.5 | 39 |
| 59 | Temperature-Dependent Emission of Monolayer-Protected Au ₃₈ Clusters. Journal of Physical Chemistry C, 2010, 114, 16025-16028. | 1.5 | 38 |
| 60 | Electronic and Magnetic Characterization of Epitaxial CrBr ₃ Monolayers on a Superconducting Substrate. Advanced Materials, 2021, 33, e2006850. | 11.1 | 38 |
| 61 | Flexible Self-Assembled Molecular Templates on Graphene. Journal of Physical Chemistry C, 2016, 120, 8772-8780. | 1.5 | 37 |
| 62 | Elemental Identification by Combining Atomic Force Microscopy and Kelvin Probe Force Microscopy. ACS Nano, 2018, 12, 5274-5283. | 7.3 | 37 |
| 63 | Scanning probe microscopy and spectroscopy of colloidal semiconductor nanocrystals and assembled structures. Chemical Reviews, 2016, 116, 11181-11219. | 23.0 | 34 |
| 64 | Synthesis of Extended Atomically Perfect Zigzag Graphene - Boron Nitride Interfaces. Scientific Reports, 2015, 5, 16741. | 1.6 | 33 |
| 65 | Engineered electronic states in atomically precise artificial lattices and graphene nanoribbons. Advances in Physics: X, 2019, 4, 1651672. | 1.5 | 33 |
| 66 | Tuneable topological domain wall states in engineered atomic chains. Npj Quantum Materials, 2020, 5, . | 1.8 | 33 |
| 67 | Scanning Tunnelling Spectroscopy on Arrays of CdSe Quantum Dots: Response of Wave Functions to Local Electric Fields. Nano Letters, 2008, 8, 4014-4019. | 4.5 | 32 |
| 68 | Flipping a single proton switch. Nature Nanotechnology, 2012, 7, 5-6. | 15.6 | 31 |
| 69 | Langmuirâ^'Blodgett Monolayers at a Liquidâ^'Liquid Interface. Langmuir, 2000, 16, 6667-6673. | 1.6 | 30 |
| 70 | Designer flat bands in quasi-one-dimensional atomic lattices. Physical Review Research, 2020, 2, . | 1.3 | 30 |
| 71 | Hole-Induced Electron Transport through Coreâ~'Shell Quantum Dots: A Direct Measurement of the Electronâ~'Hole Interaction. Nano Letters, 2010, 10, 1931-1935. | 4.5 | 29 |
| 72 | Synthesis and Properties of Monolayer MnSe with Unusual Atomic Structure and Antiferromagnetic Ordering. ACS Nano, 2021, 15, 13794-13802. | 7.3 | 28 |

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| 73 | Dissolution testing of acetylsalicylic acid by a channel flow method—correlation to USP basket and intrinsic dissolution methods. European Journal of Pharmaceutical Sciences, 2003, 19, 395-401. | 1.9 | 26 |
| 74 | Electrochemical Characterization of Polyelectrolyte Multilayers Deposited at Liquidâ ^{~2} Liquid Interfaces. Langmuir, 2003, 19, 1287-1294. | 1.6 | 26 |
| 75 | Flux closure in two-dimensional magnetite nanoparticle assemblies. Physical Review B, 2006, 73, . | 1.1 | 26 |
| 76 | Structural manipulation of the graphene/metal interface with Ar <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:mrow </mml:msup>irradiation. Physical Review B, 2013, 88, .</mml:math | 1.1 | 26 |
| 77 | Moiré-Enabled Topological Superconductivity. Nano Letters, 2022, 22, 328-333. | 4.5 | 26 |
| 78 | Two-Phase Oxidation of C60- by Molecular Oxygen at the Electrified Liquidâ^'Liquid Interface. Langmuir, 2003, 19, 5121-5127. | 1.6 | 24 |
| 79 | Charge injection and lateral conductivity in monolayers of metallic nanoparticles. Chemical Communications, 2003, , 1570. | 2.2 | 24 |
| 80 | Electron-phonon coupling and intervalley splitting determine the linewidth of single-electron transport through PbSe nanocrystals. Journal of Chemical Physics, 2009, 131, 224510. | 1.2 | 24 |
| 81 | Electronic and magnetic characterization of epitaxial VSe2 monolayers on superconducting NbSe2. Communications Physics, 2020, 3, . | 2.0 | 24 |
| 82 | Synthesis and Local Probe Gating of a Monolayer Metalâ€Organic Framework. Advanced Functional Materials, 2021, 31, 2100519. | 7.8 | 18 |
| 83 | Automated tip functionalization via machine learning in scanning probe microscopy. Computer Physics Communications, 2022, 273, 108258. | 3.0 | 17 |
| 84 | Ion Limited Charging of Nanoparticle Thin Films. Journal of Physical Chemistry C, 2008, 112, 15637-15642. | 1.5 | 15 |
| 85 | Channel flow at an immobilised liquid liquid interface. Journal of Electroanalytical Chemistry, 2000, 483, 37-46. | 1.9 | 14 |
| 86 | Electrochemical Gating in Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2008, 112, 2724-2728. | 1.5 | 13 |
| 87 | Dynamic Interfacial Tension at Electrified Liquid/Liquid Interfaces. Langmuir, 2002, 18, 8318-8323. | 1.6 | 12 |
| 88 | Chemisorption Determines the Photovoltage of a Ti/TiO2/Au/Dye Internal Electron Emission Photovoltaic Cell. Journal of Physical Chemistry B, 2005, 109, 9205-9208. | 1.2 | 12 |
| 89 | Benchmarking van der Waals-treated DFT: The case of hexagonal boron nitride and graphene on Ir(111). Physical Review Materials, 2019, 3, . | 0.9 | 12 |
| 90 | Two-Dimensional Metal–Organic Framework on Superconducting NbSe ₂ . ACS Nano, 2021, 15, 17813-17819. | 7.3 | 12 |

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| 91 | Resolving Electron Transfer Kinetics at the Nanocrystal/Solution Interface. Journal of the American Chemical Society, 2006, 128, 4922-4923. | 6.6 | 11 |
| 92 | Single- and many-particle description of scanning tunneling spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2017, 219, 63-71. | 0.8 | 11 |
| 93 | Order from a Mess: The Growth of 5-Armchair Graphene Nanoribbons. ACS Nano, 2021, 15, 16552-16561. | 7.3 | 11 |
| 94 | Electrostatic Discovery Atomic Force Microscopy. ACS Nano, 2022, 16, 89-97. | 7.3 | 11 |
| 95 | Confinement-Engineered Superconductor to Correlated-Insulator Transition in a van der Waals Monolayer. Nano Letters, 2022, 22, 1845-1850. | 4.5 | 11 |
| 96 | Mixed Self-Assembled Monolayers of Semirigid Tetrahydro-4H-thiopyran End-Capped Oligo(cyclohexylidenes). Langmuir, 2005, 21, 10497-10503. | 1.6 | 9 |
| 97 | On‣urface Assembly of Auâ€Dicyanoanthracene Coordination Structures on Au(111). ChemPhysChem, 2019, 20, 2297-2300. | 1.0 | 9 |
| 98 | Electronic Characterization of a Charge-Transfer Complex Monolayer on Graphene. ACS Nano, 2021, 15, 9945-9954. | 7.3 | 9 |
| 99 | Lipophilicity of ions electrogenerated at a Pt coated micropipette supported liquid–liquid interface. Electrochemistry Communications, 2002, 4, 255-259. | 2.3 | 8 |
| 100 | Measurement of the Adsorption of Drug lons at Model Membranes by Scanning Electrochemical Microscopy. Langmuir, 2003, 19, 2851-2858. | 1.6 | 6 |
| 101 | Channel Flow Configuration for Studying the Kinetics of Surfactantâ^'Polyelectrolyte Binding. Analytical Chemistry, 2005, 77, 6895-6901. | 3.2 | 6 |
| 102 | Field-Emission Resonances on Graphene on Insulators. Journal of Physical Chemistry C, 2015, 119, 23951-23954. | 1.5 | 6 |
| 103 | Integrating Bayesian Inference with Scanning Probe Experiments for Robust Identification of Surface Adsorbate Configurations. Advanced Functional Materials, 2021, 31, 2010853. | 7.8 | 6 |
| 104 | Membrane activity of biotechnological peptide drugs. Chemical Communications, 2003, , 1430. | 2.2 | 4 |
| 105 | Knowing your neighbours. Nature Chemistry, 2014, 6, 8-10. | 6.6 | 3 |
| 106 | Atomic-Scale Contrast Formation in AFM Images on Molecular Systems. Nanoscience and Technology, 2015, , 173-194. | 1.5 | 3 |
| 107 | Muonium in nano-crystalline II–VI semiconductors. Physica B: Condensed Matter, 2009, 404, 837-840. | 1.3 | 2 |
| 108 | A layered unconventional superconductor. Nature Physics, 0, , . | 6.5 | 1 |

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| 109 | Electron-Conducting Quantum Dot Solids: Novel Materials Based on Colloidal Semiconductor Nanocrystals. ChemInform, 2005, 36, no. | 0.1 | Ο |
| 110 | Scanning Probe Microscopy and Spectroscopy. , 2014, , 223-255. | | 0 |
| 111 | Integrating Bayesian Inference with Scanning Probe Experiments for Robust Identification of Surface Adsorbate Configurations (Adv. Funct. Mater. 32/2021). Advanced Functional Materials, 2021, 31, 2170235. | 7.8 | 0 |
| 112 | Reply to: "Topological and trivial domain wall states in engineered atomic chains― Npj Quantum Materials, 2022, 7, . | 1.8 | 0 |