

Satoshi Moriyama

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/765512/publications.pdf>

Version: 2024-02-01

68
papers

1,646
citations

279798

23
h-index

302126

39
g-index

68
all docs

68
docs citations

68
times ranked

1887
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Electron transport tuning of graphene by helium ion irradiation. Nano Express, 2022, 3, 024002. | 2.4 | 5 |
| 2 | Direct Growth of Germanene at Interfaces between Van der Waals Materials and Ag(111). Advanced Functional Materials, 2021, 31, 2007038. | 14.9 | 27 |
| 3 | ON current enhancement and variability suppression in tunnel FETs by the isoelectronic trap impurity of beryllium. Japanese Journal of Applied Physics, 2021, 60, SBBA01. | 1.5 | 2 |
| 4 | Room-temperature negative magnetoresistance of helium-ion-irradiated defective graphene in the strong Anderson localization regime. Carbon, 2021, 175, 87-92. | 10.3 | 6 |
| 5 | Analog of a Quantum Heat Engine Using a Single-Spin Qubit. Physical Review Letters, 2020, 125, 166802. | 7.8 | 57 |
| 6 | Multifunctional Pt(II)-Based Metallo-Supramolecular Polymer with Carboxylic Acid Groups: Electrochemical, Mechanochemical, Humidity, and pH Response. ACS Applied Polymer Materials, 2020, 2, 4149-4159. | 4.4 | 17 |
| 7 | Helical Fe(II)-Based Metallo-Supramolecular Polymers: Effect of Crown Ether Groups Located outside the Helix on Hydrous Proton Channel Formation. ACS Applied Polymer Materials, 2020, 2, 4521-4530. | 4.4 | 4 |
| 8 | Charge-carrier mobility in hydrogen-terminated diamond field-effect transistors. Journal of Applied Physics, 2020, 127, . | 2.5 | 33 |
| 9 | Single-Carrier Transport in Graphene/hBN Superlattices. Nano Letters, 2020, 20, 2551-2557. | 9.1 | 10 |
| 10 | Fabrication of folded bilayer-bilayer graphene/hexagonal boron nitride superlattices. Applied Physics Express, 2020, 13, 035003. | 2.4 | 2 |
| 11 | Bubble-Free Transfer Technique for High-Quality Graphene/Hexagonal Boron Nitride van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 8533-8538. | 8.0 | 49 |
| 12 | Discrete quantum levels and Zeeman splitting in ultra-thin gold-nanowire quantum dots. Journal of Applied Physics, 2019, 126, 044303. | 2.5 | 1 |
| 13 | High-temperature operation of a silicon qubit. Scientific Reports, 2019, 9, 469. | 3.3 | 33 |
| 14 | Quantum Interferometry with a g -Factor-Tunable Spin Qubit. Physical Review Letters, 2019, 122, 207703. | 7.8 | 25 |
| 15 | Topological valley currents in bilayer graphene/hexagonal boron nitride superlattices. Applied Physics Letters, 2019, 114, . | 3.3 | 29 |
| 16 | Fabry-Pérot resonances and a crossover to the quantum Hall regime in ballistic graphene quantum point contacts. Scientific Reports, 2019, 9, 3031. | 3.3 | 11 |
| 17 | Effect of gap width on electron transport through quantum point contact in hBN/graphene/hBN in the quantum Hall regime. Applied Physics Letters, 2019, 114, 023101. | 3.3 | 6 |
| 18 | Quantum oscillations in diamond field-effect transistors with a h -BN gate dielectric. Physical Review Materials, 2019, 3, . | 2.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | High-mobility diamond field effect transistor with a monocrystalline h-BN gate dielectric. <i>APL Materials</i> , 2018, 6, . | 5.1 | 59 |
| 20 | Observation of the quantum valley Hall state in ballistic graphene superlattices. <i>Science Advances</i> , 2018, 4, eaaq0194. | 10.3 | 78 |
| 21 | One-Dimensional Anhydrous Proton Conducting Channel Formation at High Temperature in a Pt(II)-Based Metallo-Supramolecular Polymer and Imidazole System. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13406-13414. | 8.0 | 35 |
| 22 | Solvent Effect on Electrochemical Properties of a Co(II)-Based Metallo-Supramolecular Polymer Film. <i>Macromolecular Symposia</i> , 2016, 363, 12-19. | 0.7 | 5 |
| 23 | Imidazolium-based poly(ionic liquid)s with poly(ethylene oxide) main chains: Effects of spacer and tail structures on ionic conductivity. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2896-2906. | 2.3 | 19 |
| 24 | Thermal and quantum phase slips in niobium-nitride nanowires based on suspended carbon nanotubes. <i>Applied Physics Letters</i> , 2016, 108, . | 3.3 | 14 |
| 25 | Proton Conductive Nanosheets Formed by Alignment of Metallo-Supramolecular Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13526-13531. | 8.0 | 26 |
| 26 | Geometrically isomeric Pt(<i>scp</i> _{ii})/Fe(<i>scp</i> _{ii})-based heterometallo-supramolecular polymers with organometallic ligands for electrochromism and the electrochemical switching of Raman scattering. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9428-9437. | 5.5 | 58 |
| 27 | Quaternary Ammonium Cation Functionalized Poly(Ionic Liquid)s with Poly(Ethylene Oxide) Main Chains. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2551-2557. | 2.2 | 6 |
| 28 | A Co(II)-based metallo-supramolecular polymer as a novel enzyme immobilization matrix for electrochemical glucose biosensing. <i>European Polymer Journal</i> , 2016, 83, 499-506. | 5.4 | 12 |
| 29 | Characterization of Effective Mobility and Its Degradation Mechanism in MoS ₂ MOSFETs. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 651-656. | 2.0 | 14 |
| 30 | An insight into ion-conduction phenomenon of gold nanocluster ligand based metallo-supramolecular polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4398-4401. | 10.3 | 14 |
| 31 | Proton conduction in Mo(<i>scp</i> _{vi})-based metallo-supramolecular polymers. <i>Chemical Communications</i> , 2015, 51, 11012-11014. | 4.1 | 15 |
| 32 | Platinum(II)-Based Metallo-Supramolecular Polymer with Controlled Unidirectional Dipoles for Tunable Rectification. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19034-19042. | 8.0 | 24 |
| 33 | Effect of a three-dimensional hyperbranched structure on the ionic conduction of metallo-supramolecular polymers. <i>RSC Advances</i> , 2015, 5, 49224-49230. | 3.6 | 19 |
| 34 | Black-to-Transmissive Electrochromism with Visible-to-Near-Infrared Switching of a Co(II)-Based Metallo-Supramolecular Polymer for Smart Window and Digital Signage Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18266-18272. | 8.0 | 97 |
| 35 | Fabrication of high- <i>k</i> /metal-gate MoS ₂ field-effect transistor by device isolation process utilizing Ar-plasma etching. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 046502. | 1.5 | 20 |
| 36 | Synthesis and characterization of glycidyl-polymer-based poly(ionic liquid)s: highly designable polyelectrolytes with a poly(ethylene glycol) main chain. <i>RSC Advances</i> , 2015, 5, 87940-87947. | 3.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Modulation of superconducting critical temperature in niobium film by using all-solid-state electric-double-layer transistor. Applied Physics Letters, 2015, 107, . | 3.3 | 26 |
| 38 | Selective Edge Modification in Graphene and Graphite by Chemical Oxidation. Journal of Nanoscience and Nanotechnology, 2014, 14, 2974-2978. | 0.9 | 7 |
| 39 | Field-induced confined states in graphene. Applied Physics Letters, 2014, 104, 053108. | 3.3 | 19 |
| 40 | Real-time humidity-sensing properties of ionically conductive Ni(ii)-based metallo-supramolecular polymers. Journal of Materials Chemistry A, 2014, 2, 7754. | 10.3 | 41 |
| 41 | Three-Dimensional Fe(II)-based Metallo-Supramolecular Polymers with Electrochromic Properties of Quick Switching, Large Contrast, and High Coloration Efficiency. ACS Applied Materials & Interfaces, 2014, 6, 9118-9125. | 8.0 | 116 |
| 42 | Single electron transistors with ultra-thin Au nanowires as a single Coulomb island. Applied Physics Letters, 2013, 102, 203117. | 3.3 | 7 |
| 43 | Ionic conductivity of Ni(ii)-based metallo-supramolecular polymers: effects of ligand modification. Journal of Materials Chemistry A, 2013, 1, 9016. | 10.3 | 30 |
| 44 | Multi-colour electrochromic properties of Fe/Ru-based bimetallo-supramolecular polymers. Journal of Materials Chemistry C, 2013, 1, 3408. | 5.5 | 113 |
| 45 | Coulomb blockade behavior in nanostructured graphene with direct contacts. Materials Express, 2013, 3, 92-96. | 0.5 | 1 |
| 46 | Introducing Nonuniform Strain to Graphene Using Dielectric Nanopillars. Applied Physics Express, 2011, 4, 075102. | 2.4 | 101 |
| 47 | Fabrication of quantum-dot devices in graphene. Science and Technology of Advanced Materials, 2010, 11, 054601. | 6.1 | 15 |
| 48 | Density-of-State Oscillation of Quasiparticle Excitation in the Spin Density Wave Phase of TMTSF-xTf_2 (stretchy) Physical Review Letters, 2010, 105, 267201. | 5.0 | 297 |
| 49 | Inelastic cotunneling mediated singlet-triplet transition in carbon nanotubes. Physical Review B, 2009, 80, . | 3.2 | 3 |
| 50 | Effect of Quantum Hall State of Substrate on Single-Electron Transport of Carbon Nanotube Quantum Dots. Japanese Journal of Applied Physics, 2009, 48, 015001. | 1.5 | 0 |
| 51 | Coupled Quantum Dots in a Graphene-Based Two-Dimensional Semimetal. Nano Letters, 2009, 9, 2891-2896. | 9.1 | 59 |
| 52 | Artificial atom and quantum terahertz response in carbon nanotube quantum dots. Journal of Physics Condensed Matter, 2008, 20, 454203. | 1.8 | 2 |
| 53 | Spin effects in single-electron transport through carbon nanotube quantum dots. Physical Review B, 2007, 76, . | 3.2 | 5 |
| 54 | Shell structures and electron-spin configurations in single-walled carbon nanotube quantum dots. Physica Status Solidi (B): Basic Research, 2007, 244, 2371-2377. | 1.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Carbon nanotubes as building blocks of quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 338-343. | 2.7 | 6 |
| 56 | One-Dimensional Shell Structures and Excitation Spectrum in Single-Wall Carbon Nanotube Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 3633-3637. | 1.5 | 3 |
| 57 | Quantum-dot nanodevices with carbon nanotubes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1349-1355. | 2.1 | 31 |
| 58 | Importance of electron-electron interactions and Zeeman splitting in single-wall carbon nanotube quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 26, 473-476. | 2.7 | 1 |
| 59 | Excitation spectroscopy of two-electron shell structures in carbon nanotube quantum dots in magnetic fields. <i>Applied Physics Letters</i> , 2005, 87, 073103. | 3.3 | 14 |
| 60 | Four-Electron Shell Structures and an Interacting Two-Electron System in Carbon-Nanotube Quantum Dots. <i>Physical Review Letters</i> , 2005, 94, 186806. | 7.8 | 110 |
| 61 | Carbon nanotube quantum dots fabricated on a GaAs/AlGaAs two-dimensional electron gas substrate. <i>Journal of Applied Physics</i> , 2005, 98, 076106. | 2.5 | 14 |
| 62 | Selecting single quantum dots from a bundle of single-wall carbon nanotubes using the large current flow process. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 613-615. | 6.1 | 3 |
| 63 | Carbon nanotubes as a building block of quantum dot devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 24, 10-13. | 2.7 | 1 |
| 64 | Electrical transport in semiconducting carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 24, 46-49. | 2.7 | 26 |
| 65 | Observation of discrete quantum levels in multi-wall carbon nanotube quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 24, 50-53. | 2.7 | 2 |
| 66 | Two-electron and four-electron periodicity in single-wall carbon nanotube quantum dots. <i>Superlattices and Microstructures</i> , 2003, 34, 377-382. | 3.1 | 10 |
| 67 | Effect of the large current flow on the low-temperature transport properties in a bundle of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 83, 3803-3805. | 3.3 | 4 |
| 68 | Single and coupled quantum dots in single-wall carbon nanotubes. <i>Superlattices and Microstructures</i> , 2002, 31, 141-149. | 3.1 | 5 |