

Taishi Takenobu

List of PR Articles by Year in descending order

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75

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4,875

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115095

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documents

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doc citations

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8594

citing authors

| # | ARTICLE | IF | PR CITATIONS |
|----|--|------|--------------|
| 1 | Metallic Conduction and Carrier Localization in Two-Dimensional BEDO-TTF Charge-Transfer Solid Crystals. <i>Crystals</i> , 2022, 12, 23. | 2.2 | 2 |
| 2 | Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. <i>Nano Letters</i> , 2021, 21, 243-249. | 8.7 | 34 |
| 3 | Air-stable and efficient electron doping of monolayer MoS ₂ by salt-crown ether treatment. <i>Nanoscale</i> , 2021, 13, 8784-8789. | 5.0 | 17 |
| 4 | One-dimensionality of thermoelectric properties of semiconducting nanomaterials. <i>Physical Review Materials</i> , 2021, 5, . | 2.7 | 7 |
| 5 | Electric Double Layer Doping of Charge-Ordered Insulators \hat{I}_{\pm} -(BEDT-TTF) ₂ I ₃ and \hat{I}_{\pm} -(BETS) ₂ I ₃ . <i>Crystals</i> , 2021, 11, 791. | 2.2 | 3 |
| 6 | Spatial Control of Dynamic $\langle i \rangle$ p-n Junctions in Transition Metal Dichalcogenide Light-Emitting Devices. <i>ACS Nano</i> , 2021, 15, 12911-12921. | 15.3 | 15 |
| 7 | Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer Semiconductors. <i>Advanced Materials</i> , 2021, 33, . | 24.5 | 28 |
| 8 | Triethylene Glycol Substituted Diketopyrrolopyrrole- and Isoindigo-Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, . | 4.9 | 24 |
| 9 | Highly Efficient Microscopic Charge Transport within Crystalline Domains in a Furan-Flanked Diketopyrrolopyrrole-Based Conjugated Copolymer. <i>Advanced Functional Materials</i> , 2020, 30, . | 17.0 | 13 |
| 10 | CVD growth of large-area InS atomic layers and device applications. <i>Nanoscale</i> , 2020, 12, 9366-9374. | 5.0 | 17 |
| 11 | A versatile structure of light-emitting electrochemical cells for printed electronics. <i>Applied Physics Express</i> , 2020, 13, 084002. | 2.1 | 1 |
| 12 | Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors. <i>ACS Nano</i> , 2019, 13, 9218-9226. | 15.3 | 13 |
| 13 | Microscopic observation of efficient charge transport processes across domain boundaries in donor-acceptor-type conjugated polymers. <i>Communications Physics</i> , 2019, 2, . | 5.3 | 33 |
| 14 | Giant power factors in p- and n-type large-area graphene films on a flexible plastic substrate. <i>Npj 2D Materials and Applications</i> , 2019, 3, . | 7.8 | 40 |
| 15 | Non-Fermi-liquid behavior and doping asymmetry in an organic Mott insulator interface. <i>Physical Review B</i> , 2019, 100, . | 3.4 | 8 |
| 16 | Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019, 3, . | 7.8 | 29 |
| 17 | Electrolyte-Gating-Induced Metal-Like Conduction in Nonstoichiometric Organic Crystalline Semiconductors under Simultaneous Bandwidth Control. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, . | 2.0 | 2 |
| 18 | Two-dimensional ground-state mapping of a Mott-Hubbard system in a flexible field-effect device. <i>Science Advances</i> , 2019, 5, . | 11.0 | 26 |

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|----|---|------|--------------|
| 19 | Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019, 31, . | 24.5 | 46 |
| 20 | Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CB15. | 1.9 | 9 |
| 21 | Self-Aligned and Scalable Growth of Monolayer WSe ₂ -MoS ₂ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018, 28, . | 17.0 | 61 |
| 22 | Polarized emission from light-emitting electrochemical cells using uniaxially oriented polymer thin films of poly(9,9-dioctylfluorene-co-bithiophene). <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EF01. | 1.9 | 2 |
| 23 | Light emission from organic single crystals operated by electrolyte doping. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EF02. | 1.9 | 8 |
| 24 | Microscopic observation of highly mobile charge carriers in organic transistors of semicrystalline conducting polymers. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CA04. | 1.9 | 4 |
| 25 | An ester-substituted polyfluorene derivative for light-emitting electrochemical cells: bright blue emission and its application in a host-guest system. <i>Materials Chemistry Frontiers</i> , 2018, 2, 952-958. | 6.1 | 23 |
| 26 | GaN light-emitting device based on ionic liquid electrolyte. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 06HE05. | 1.9 | 3 |
| 27 | Synthesis of Large-Area InSe Monolayers by Chemical Vapor Deposition. <i>Small</i> , 2018, 14, . | 11.6 | 114 |
| 28 | Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1562-1568. | 3.1 | 181 |
| 29 | High Current Injection into Dynamic p-n Homojunction in Polymer Light-Emitting Electrochemical Cells. <i>Advanced Materials</i> , 2017, 29, . | 24.5 | 41 |
| 30 | A Versatile and Simple Approach to Generate Light Emission in Semiconductors Mediated by Electric Double Layers. <i>Advanced Materials</i> , 2017, 29, . | 24.5 | 41 |
| 31 | An Ionic Liquid That Dissolves Semiconducting Polymers: A Promising Electrolyte for Bright, Efficient, and Stable Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , 2017, 29, 6122-6129. | 6.7 | 51 |
| 32 | Control of the electrochemical and photophysical properties of N-substituted benzo[ghi]perylene derivatives. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2299-2308. | 6.1 | 16 |
| 33 | Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylene diimide Dimers and a Ferrocene-Linked Triad. <i>Chemistry - A European Journal</i> , 2016, 22, 9631-9641. | 3.4 | 21 |
| 34 | Thermoelectric Detection of Multi-Subband Density of States in Semiconducting and Metallic Single-Walled Carbon Nanotubes. <i>Small</i> , 2016, 12, 3388-3392. | 11.6 | 49 |
| 35 | Highly Flexible and High-Performance Complementary Inverters of Large-Area Transition Metal Dichalcogenide Monolayers. <i>Advanced Materials</i> , 2016, 28, 4111-4119. | 24.5 | 133 |
| 36 | Simultaneous enhancement of conductivity and Seebeck coefficient in an organic Mott transistor. <i>Applied Physics Letters</i> , 2016, 109, . | 3.0 | 19 |

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|----|---|------|--------------|
| 37 | Direct observation of electrically induced Pauli paramagnetism in single-layer graphene using ESR spectroscopy. <i>Scientific Reports</i> , 2016, 6, . | 3.5 | 17 |
| 38 | Photodetection in p-n junctions formed by electrolyte-gated transistors of two-dimensional crystals. <i>Applied Physics Letters</i> , 2016, 109, . | 3.0 | 17 |
| 39 | Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016, 94, . | 3.4 | 89 |
| 40 | Electron-hole doping asymmetry of Fermi surface reconstructed in a simple Mott insulator. <i>Nature Communications</i> , 2016, 7, . | 13.9 | 46 |
| 41 | Protonation-induced red-coloured circularly polarized luminescence of [5]carbohelicene fused by benzimidazole. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6738-6743. | 2.6 | 45 |
| 42 | Controlled Excited-State Dynamics and Enhanced Fluorescence Property of Tetrasulfone[9]helicene by a Simple Synthetic Process. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7421-7427. | 3.1 | 62 |
| 43 | Synthetic Control of the Excited-State Dynamics and Circularly Polarized Luminescence of Fluorescent Push-Pull-Tetrathia[9]helicenes. <i>Chemistry - A European Journal</i> , 2016, 22, 4263-4273. | 3.4 | 91 |
| 44 | Synthetic Control of Photophysical Process and Circularly Polarized Luminescence of [5]Carbohelicene Derivatives Substituted by Maleimide Units. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7860-7869. | 3.1 | 67 |
| 45 | Ambipolar light-emitting organic single-crystal transistors with a grating resonator. <i>Scientific Reports</i> , 2015, 5, . | 3.5 | 31 |
| 46 | Strategy for improved frequency response of electric double-layer capacitors. <i>Applied Physics Letters</i> , 2015, 107, . | 3.0 | 4 |
| 47 | Novel Functional Devices of Single-walled Carbon Nanotubes. <i>Molecular Science</i> , 2015, 9, A0080. | 0.0 | 0 |
| 48 | Highly Fluorescent [7]Carbohelicene Fused by Asymmetric 1,2-Dialkyl-Substituted Quinoxaline for Circularly Polarized Luminescence and Electroluminescence. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13937-13947. | 3.1 | 114 |
| 49 | Ultrafast photoinduced electron transfer in face-to-face charge-transfer π -complexes of planar porphyrins and hexaazatriphenylene derivatives. <i>Chemical Science</i> , 2015, 6, 1498-1509. | 7.1 | 38 |
| 50 | Fluorescent Ferroelectrics of Hydrogen-Bonded Pyrene Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1813-1818. | 4.2 | 91 |
| 51 | Characterization of New Rubrene Analogues with Heteroaryl Substituents. <i>Crystal Growth and Design</i> , 2015, 15, 442-448. | 3.4 | 31 |
| 52 | Hole mobility enhancement and p-doping in monolayer WSe ₂ by gold decoration. <i>2D Materials</i> , 2014, 1, 034001. | 4.2 | 149 |
| 53 | Large-Area Synthesis of Highly Crystalline WSe ₂ Monolayers and Device Applications. <i>ACS Nano</i> , 2014, 8, 923-930. | 15.3 | 1,036 |
| 54 | Monolayer MoSe ₂ Grown by Chemical Vapor Deposition for Fast Photodetection. <i>ACS Nano</i> , 2014, 8, 8582-8590. | 15.3 | 591 |

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|----|---|------|--------------|
| 55 | Electron-Transfer Reduction Properties and Excited-State Dynamics of Benzo[<i>a</i>]peryleneimide and Coroneneimide Derivatives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7710-7720. | 3.1 | 35 |
| 56 | Continuous Band-Filling Control and One-Dimensional Transport in Metallic and Semiconducting Carbon Nanotube Tangled Films. <i>Advanced Functional Materials</i> , 2014, 24, 3305-3311. | 17.0 | 42 |
| 57 | Charge transport in ion-gated mono-, bi- and trilayer MoS ₂ field effect transistors. <i>Scientific Reports</i> , 2014, 4, . | 3.5 | 70 |
| 58 | Fabrication of stretchable MoS ₂ thin-film transistors using elastic ion-gel gate dielectrics. <i>Applied Physics Letters</i> , 2013, 103, . | 3.0 | 100 |
| 59 | Electron spin resonance observation of charge carrier concentration in organic field-effect transistors during device operation. <i>Physical Review B</i> , 2013, 87, . | 3.4 | 31 |
| 60 | Inkjet printing of aligned single-walled carbon-nanotube thin films. <i>Applied Physics Letters</i> , 2013, 102, . | 3.0 | 30 |
| 61 | Two-dimensional magnetic interactions and magnetism of high-density charges in a polymer transistor. <i>Applied Physics Letters</i> , 2013, 102, . | 3.0 | 21 |
| 62 | Realization of ohmic-like contact between ferromagnet and rubrene single crystal. <i>Applied Physics Letters</i> , 2012, 101, 073501. | 3.0 | 5 |
| 63 | Optically pumped amplified spontaneous emission in an ionic liquid-based polymer light-emitting electrochemical cell. <i>Applied Physics Letters</i> , 2012, 100, 263301. | 3.0 | 32 |
| 64 | Highly Flexible MoS ₂ Thin-Film Transistors with Ion Gel Dielectrics. <i>Nano Letters</i> , 2012, 12, 4013-4017. | 8.7 | 800 |
| 65 | Electrical transport properties in a single-walled carbon nanotube network. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 183-186. | 0.7 | 2 |
| 66 | Ambipolar Organic Single-Crystal Transistors Based on Ion Gels. <i>Advanced Materials</i> , 2012, 24, 4392-4397. | 24.5 | 82 |
| 67 | Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors. <i>Angewandte Chemie</i> , 2012, 124, 3903-3907. | 1.4 | 26 |
| 68 | Enhancement of luminescence intensity in TMPY/perylene co-single crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 17662. | 7.3 | 39 |
| 69 | Extraction of the contact resistance from the saturation region of rubrene single-crystal transistors. <i>Applied Physics Letters</i> , 2011, 99, 233301. | 3.0 | 19 |
| 70 | Electrical investigation of the interface band structure in rubrene single-crystal/nickel junction. <i>Applied Physics Letters</i> , 2011, 99, 043505. | 3.0 | 6 |
| 71 | Inkjet printing of single-walled carbon nanotube thin-film transistors patterned by surface modification. <i>Applied Physics Letters</i> , 2011, 99, . | 3.0 | 43 |
| 72 | Green light emission from the edges of organic single-crystal transistors. <i>Applied Physics Letters</i> , 2010, 97, 173301. | 3.0 | 53 |

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|----|--|-----|-----------------|
| 73 | High current densities in a highly photoluminescent organic single-crystal light-emitting transistor. Applied Physics Letters, 2010, 97, . | 3.0 | 55 |
| 74 | Effect of postannealing on the performance of pentacene single-crystal ambipolar transistors. Applied Physics Letters, 2008, 93, 073301. | 3.0 | 37 |
| 75 | High Current Density in Light-Emitting Transistors of Organic Single Crystals. Physical Review Letters, 2008, 100, . | 8.2 | 217 |