# Nobuya Sakai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8206703/publications.pdf

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|---|---|---|---|
| 32 papers | 9,402 citations | 201674 27 h-index | 434195 31 g-index |
| 33 all docs | 33 docs citations | 33 times ranked | 11128 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254. | 27.5 | 40 |
| 2 | A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102. | 12.6 | 461 |
| 3 | Fabrication of Efficient and Stable CsPbI<sub>3</sub> Perovskite Solar Cells through Cation Exchange Process. Advanced Energy Materials, 2019, 9, 1901685. | 19.5 | 101 |
| 4 | Planar perovskite solar cells with long-term stability using ionic liquid additives. Nature, 2019, 571, 245-250. | 27.8 | 1,103 |
| 5 | Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. Nature Communications, 2019, 10, 4475. | 12.8 | 49 |
| 6 | Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. Energy and Environmental Science, 2019, 12, 169-176. | 30.8 | 115 |
| 7 | Oxide Analogs of Halide Perovskites and the New Semiconductor Ba<sub>2</sub>AgIO<sub>6</sub>. Journal of Physical Chemistry Letters, 2019, 10, 1722-1728. | 4.6 | 36 |
| 8 | Facile Synthesis of Stable and Highly Luminescent Methylammonium Lead Halide Nanocrystals for Efficient Light Emitting Devices. Journal of the American Chemical Society, 2019, 141, 1269-1279. | 13.7 | 108 |
| 9 | Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI<sub>3</sub> by Theory and Experiment. ACS Energy Letters, 2018, 3, 1787-1794. | 17.4 | 455 |
| 10 | Microseconds, milliseconds and seconds: deconvoluting the dynamic behaviour of planar perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 5959-5970. | 2.8 | 200 |
| 11 | Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for Highâ€Efficiency Perovskite Solar Cells. Small, 2017, 13, 1602808. | 10.0 | 36 |
| 12 | Solution-Processed Cesium Hexabromopalladate(IV), Cs<sub>2</sub>PdBr<sub>6</sub>, for Optoelectronic Applications. Journal of the American Chemical Society, 2017, 139, 6030-6033. | 13.7 | 189 |
| 13 | V-Shaped Hole-Transporting TPD Dimers Containing TrÃ¶gerâ€™s Base Core. Journal of Physical Chemistry C, 2017, 121, 10267-10274. | 3.1 | 6 |
| 14 | Efficient and Airâ€Stable Mixedâ€Cation Lead Mixedâ€Halide Perovskite Solar Cells with nâ€Doped Organic Electron Extraction Layers. Advanced Materials, 2017, 29, 1604186. | 21.0 | 237 |
| 15 | Amorphous Holeâ€Transporting Material based on 2,2â€²â€Bisâ€substituted 1,1â€²â€Biphenyl Scaffold for Application in Perovskite Solar Cells. Chemistry - an Asian Journal, 2017, 12, 958-962. | 3.3 | 17 |
| 16 | Influence of Interface Morphology on Hysteresis in Vaporâ€Deposited Perovskite Solar Cells. Advanced Electronic Materials, 2017, 3, 1600470. | 5.1 | 63 |
| 17 | Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. Chemistry of Materials, 2017, 29, 462-473. | 6.7 | 35 |
| 18 | Measurement and modelling of dark current decay transients in perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 452-462. | 5.5 | 64 |

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|---|---|---|---|
| 19 | Efficient ambient-air-stable solar cells with 2Dâ€“3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. Nature Energy, 2017, 2, . | 39.5 | 1,169 |
| 20 | Synthesis and Investigation of the Vâ€shaped TrÃ¶gerâ€²s Base Derivatives as Holeâ€transporting Materials. Chemistry - an Asian Journal, 2016, 11, 2049-2056. | 3.3 | 9 |
| 21 | Identification and Mitigation of a Critical Interfacial Instability in Perovskite Solar Cells Employing Copper Thiocyanate Holeâ€Transporter. Advanced Materials Interfaces, 2016, 3, 1600571. | 3.7 | 105 |
| 22 | Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI<sub>3</sub> Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16399-16411. | 3.1 | 118 |
| 23 | A Universal Deposition Protocol for Planar Heterojunction Solar Cells with High Efficiency Based on Hybrid Lead Halide Perovskite Families. Advanced Materials, 2016, 28, 10701-10709. | 21.0 | 100 |
| 24 | Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. Journal of Physical Chemistry Letters, 2016, 7, 1254-1259. | 4.6 | 761 |
| 25 | The mechanism of toluene-assisted crystallization of organicâ€“inorganic perovskites for highly efficient solar cells. Journal of Materials Chemistry A, 2016, 4, 4464-4471. | 10.3 | 86 |
| 26 | A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. Science, 2016, 351, 151-155. | 12.6 | 2,514 |
| 27 | Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320. | 14.6 | 173 |
| 28 | A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. Journal of Physical Chemistry Letters, 2015, 6, 1773-1779. | 4.6 | 69 |
| 29 | Perovskite Crystals for Tunable White Light Emission. Chemistry of Materials, 2015, 27, 8066-8075. | 6.7 | 362 |
| 30 | Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030. | 12.8 | 620 |
| 31 | The Importance of Interface Morphology for Hysteresis-Free Perovskite Solar Cells. , 0, , . | | 0 |
| 32 | Estimating oxidised Sn4+ species at the precursor stage: on the effect of reducing agents in Sn-based perovskites.. , 0, , . | | 0 |