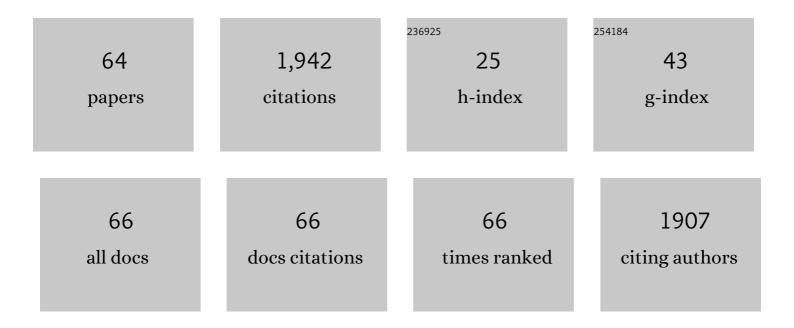
Shuichi Nagamatsu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Backbone Arrangement in "Friction-Transferred―Regioregular Poly(3-alkylthiophene)s. Macromolecules, 2003, 36, 5252-5257. | 4.8 | 161 |
| 2 | Solution-processed n-type organic thin-film transistors with high field-effect mobility. Applied Physics Letters, 2005, 87, 203504. | 3.3 | 116 |
| 3 | Recent advances in the orientation of conjugated polymers for organic field-effect transistors. Journal of Materials Chemistry C, 2019, 7, 13323-13351. | 5.5 | 111 |
| 4 | Formation of Single-Crystal-like Poly(9,9-dioctylfluorene) Thin Film by the Friction-Transfer Technique with Subsequent Thermal Treatments. Macromolecules, 2004, 37, 6926-6931. | 4.8 | 109 |
| 5 | Highly polarized polymer light-emitting diodes utilizing friction-transferred poly(9,9-dioctylfluorene) thin films. Applied Physics Letters, 2005, 87, 243503. | 3.3 | 83 |
| 6 | Regioregularity vs Regiorandomness: Effect on Photocarrier Transport in Poly(3-hexylthiophene). Japanese Journal of Applied Physics, 2000, 39, L94-L97. | 1.5 | 82 |
| 7 | Correlation of the Number of Thiophene Units with Structural Order and Carrier Mobility in Unsubstituted Even- and Odd-Numbered α-Oligothiophene Films. Journal of Physical Chemistry B, 2005, 109, 9374-9378. | 2.6 | 68 |
| 8 | Enhancement of Transport Characteristics in Poly(3-hexylthiophene) Films Deposited with Floating Film Transfer Method. Applied Physics Express, 2009, 2, 111502. | 2.4 | 66 |
| 9 | Highly efficient polarized polymer light-emitting diodes utilizing oriented films of β-phase poly(9,9-dioctylfluorene). Applied Physics Letters, 2008, 93, . | 3.3 | 65 |
| 10 | Polymer field-effect transistors by a drawing method. Applied Physics Letters, 2004, 84, 4608-4610. | 3.3 | 59 |
| 11 | Solvent driven performance in thin floating-films of PBTTT for organic field effect transistor: Role of macroscopic orientation. Organic Electronics, 2017, 43, 240-246. | 2.6 | 56 |
| 12 | Enhancement of carrier mobility along with anisotropic transport in non-regiocontrolled poly (3-hexylthiophene) films processed by floating film transfer method. Organic Electronics, 2016, 38, 115-120. | 2.6 | 48 |
| 13 | Photocarrier Mobility in Regioregular Poly(3-hexylthiophene) Studied by the Time of Flight Method. Japanese Journal of Applied Physics, 1999, 38, L1188-L1190. | 1.5 | 45 |
| 14 | Rapid Formation and Macroscopic Selfâ€Assembly of Liquidâ€Crystalline, Highâ€Mobility, Semiconducting Thienothiophene. Advanced Materials Interfaces, 2018, 5, 1700875. | 3.7 | 41 |
| 15 | Macroscopic self ordering of solution processible poly(3,3″′-dialkylquaterthiophene) by floating film transfer method. Journal of Applied Physics, 2013, 114, . | 2.5 | 40 |
| 16 | Anisotropic charge transport in highly oriented films of semiconducting polymer prepared by ribbon-shaped floating film. Applied Physics Letters, 2018, 112, . | 3.3 | 40 |
| 17 | Organic field-effect transistors by a wet-transferring method. Applied Physics Letters, 2003, 83, 1243-1245. | 3.3 | 38 |
| 18 | Influence of backbone structure on orientation of conjugated polymers in the dynamic casting of thin floating-films. Thin Solid Films, 2016, 619, 125-130. | 1.8 | 35 |

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|----|--|-----|-----------|
| 19 | Mechanism of Photocarrier Generation and Transport in Poly(3-Alkylthiophene) Films. Japanese Journal of Applied Physics, 2000, 39, 6309-6315. | 1.5 | 34 |
| 20 | Crystal Structure of Friction-Transferred Poly(2,5-dioctyloxy-1,4-phenylenevinylene). Journal of Physical Chemistry B, 2007, 111, 4349-4354. | 2.6 | 34 |
| 21 | Controlling Factors for Orientation of Conjugated Polymer Films in Dynamic Floating-Film Transfer Method. Journal of Nanoscience and Nanotechnology, 2017, 17, 1915-1922. | 0.9 | 34 |
| 22 | Layer-by-layer coating of oriented conjugated polymer films towards anisotropic electronics. Synthetic Metals, 2017, 227, 29-36. | 3.9 | 30 |
| 23 | Facile fabrication of large area oriented conjugated polymer films by ribbon-shaped FTM and its implication on anisotropic charge transport. Organic Electronics, 2019, 65, 1-7. | 2.6 | 30 |
| 24 | Structure and Electrical Properties of Unsubstituted Oligothiophenes End-Capped at the \hat{l}^2 -Position. Chemistry of Materials, 2007, 19, 2694-2701. | 6.7 | 28 |
| 25 | Effects of molecular alignment on carrier transport in organic transistors. Synthetic Metals, 2003, 137, 923-924. | 3.9 | 26 |
| 26 | Ambipolar Transport in Bilayer Organic Field-Effect Transistor Based on Poly(3-hexylthiophene) and Fullerene Derivatives. Japanese Journal of Applied Physics, 2010, 49, 041601. | 1.5 | 26 |
| 27 | Long-Term Air-Stable <i>n</i> -Channel Organic Thin-Film Transistors Using 2,5-Difluoro-1,4-phenylene-bis{2-[4-(trifluoromethyl)phenyl]acrylonitrile}. ACS Applied Materials & Interfaces, 2014, 6, 3847-3852. | 8.0 | 26 |
| 28 | C60 thin-film transistors with low work-function metal electrodes. Applied Physics Letters, 2004, 85, 2396-2398. | 3.3 | 25 |
| 29 | Optical and Transport Anisotropy in Poly(9,9\$'\$-dioctyl-fluorene-alt-bithiophene) Films Prepared by Floating Film Transfer Method. Japanese Journal of Applied Physics, 2012, 51, 055802. | 1.5 | 25 |
| 30 | Investigation and Control of Charge Transport Anisotropy in Highly Oriented Friction-Transferred Polythiophene Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 11876-11883. | 8.0 | 25 |
| 31 | Interplay of Orientation and Blending: Synergistic Enhancement of Field Effect Mobility in Thiophene-Based Conjugated Polymers. Journal of Physical Chemistry C, 2017, 121, 11184-11193. | 3.1 | 24 |
| 32 | Unipolarization of ambipolar organic field effect transistors toward high-impedance complementary metal-oxide-semiconductor circuits. Applied Physics Letters, 2007, 91, 071905. | 3.3 | 20 |
| 33 | Implication of Molecular Weight on Optical and Charge Transport Anisotropy in PQT-C12 Films Fabricated by Dynamic FTM. ACS Applied Materials & Interfaces, 2019, 11, 28088-28095. | 8.0 | 20 |
| 34 | Device Performance of an n-Channel Organic Thin-Film Transistor with LiF/Al Bilayer Source and Drain Electrodes. Japanese Journal of Applied Physics, 2002, 41, L808-L810. | 1.5 | 19 |
| 35 | Polarization sensitive photoelectic conversion by polymer/titania bilayer. Synthetic Metals, 2003, 137, 1425-1426. | 3.9 | 19 |
| 36 | Solution-processable Oligothiophene Derivatives with Branched Alkyl Chains and Their Thin-film Transistor Characteristics. Chemistry Letters, 2010, 39, 60-61. | 1.3 | 18 |

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|----|---|-----|-----------|
| 37 | Electrophoretic deposition onto an insulator for thin film preparation toward electronic device fabrication. Applied Physics Letters, 2012, 101, . | 3.3 | 17 |
| 38 | P3HT-fiber-based field-effect transistor: Effects of nanostructure and annealing temperature. Japanese Journal of Applied Physics, 2014, 53, 021601. | 1.5 | 17 |
| 39 | Molecular orientation of poly(3-butylthiophene) friction-transferred films. Thin Solid Films, 2009, 518, 853-856. | 1.8 | 16 |
| 40 | Ordered arrangement of F4TCNQ anions in three-dimensionally oriented P3HT thin films. Scientific Reports, 2020, 10, 20020. | 3.3 | 14 |
| 41 | One-Step Deposition of Self-Oriented \$eta\$-Phase Polyfluorene Thin Films for Polarized Polymer Light-Emitting Diodes. Applied Physics Express, 2012, 5, 092101. | 2.4 | 13 |
| 42 | Fabrication of Large-scale Drop-cast Films of π-conjugated Polymers with Floating-film Transfer Method. Transactions of the Materials Research Society of Japan, 2013, 38, 305-308. | 0.2 | 13 |
| 43 | A Steady Operation of n-Type Organic Thin-Film Transistors with Cyano-Substituted Distyrylbenzene Derivative. Applied Physics Express, 2009, 2, 101502. | 2.4 | 12 |
| 44 | Synthesis, characterization and air stable semiconductor properties of thiophene-condensed pyrene derivatives. Journal of Molecular Structure, 2017, 1127, 413-418. | 3.6 | 11 |
| 45 | Role of device architecture and AlOX interlayer in organic Schottky diodes and their interpretation by analytical modeling. Journal of Applied Physics, 2019, 126, . | 2.5 | 11 |
| 46 | Molecular orientation and anisotropic charge transport in the large area thin films of regioregular Poly(3-alkylthiophenes) fabricated by ribbon-shaped FTM. Organic Electronics, 2020, 81, 105687. | 2.6 | 9 |
| 47 | Single-Crystal-like Structure of Poly(9,9-dioctylfluorene) Thin Films Evaluated by Synchrotron-Sourced Grazing-Incidence X-ray Diffraction. Polymer Journal, 2007, 39, 1306-1311. | 2.7 | 8 |
| 48 | Robust Hole Transport in a Thienothiophene Derivative toward Low-cost Electronics. Chemistry Letters, 2010, 39, 1315-1316. | 1.3 | 8 |
| 49 | Bis(alkyl-thiophene) thienothiophene as hole-transport organic semiconductor. Physics Procedia, 2011, 14, 182-186. | 1.2 | 8 |
| 50 | LiF/Al bilayer source and drain electrodes for n-channel organic field-effect transistors. Synthetic Metals, 2003, 137, 953-954. | 3.9 | 7 |
| 51 | Side-Chain Effects on Friction-Transferred Polymer Orientation. Polymer Journal, 2007, 39, 1300-1305. | 2.7 | 7 |
| 52 | 2D positional profiling of orientation and thickness uniformity in the semiconducting polymers thin films. Organic Electronics, 2019, 68, 221-229. | 2.6 | 7 |
| 53 | Molecular structures of n-type semiconducting material 2,5-difluoro-1,4-phenylene-3,3′-bis{2-[(4-trifluoromethyl)phenyl]acrylonitrile} and its photo dimerization product. Journal of Molecular Structure, 2016, 1118, 372-377. | 3.6 | 6 |
| 54 | Dynamics of Preaggregation and Film Formation of Donor–Acceptor π-Conjugated Polymers. , 2022, 4, | | 6 |

205-211.

| # | Article | IF | CITATIONS |
|----|---|-------|-----------|
| 55 | Solvent-Assisted Friction Transfer Method for Fabricating Large-Area Thin Films of Semiconducting Polymers with Edge-On Oriented Extended Backbones. ACS Applied Materials & Interfaces, 2020, 12, 55033-55043. | 8.0 | 5 |
| 56 | Oriented Thin Films of Insoluble Polythiophene Prepared by the Friction Transfer Technique. Polymers, 2021, 13, 2393. | 4.5 | 4 |
| 57 | Optical and Transport Anisotropy in Poly(9,9'-dioctyl-fluorene- <i>alt</i> -bithiophene) Films Prepared by Floating Film Transfer Method. Japanese Journal of Applied Physics, 2012, 51, 055802. | 1.5 | 4 |
| 58 | Multi-Layered Oriented Polyfluorene Films. Journal of Physical Chemistry B, 2009, 113, 5746-5751. | 2.6 | 3 |
| 59 | Comparative Study on Gate Insulators of Polymers and SiO ₂ in Transport Properties of p- and n-Type Organic Field-Effect Transistors. Japanese Journal of Applied Physics, 2010, 49, 01AB14. | 1.5 | 3 |
| 60 | P3HT Nanofibrils Thin-Film Transistors by Adsorbing Deposition in Suspension. Materials, 2019, 12, 3643. | 2.9 | 3 |
| 61 | Implications of doping and depletion on the switching characteristics in polymer-based organic field-effect transistors. Organic Electronics, 2018, 56, 152-158. | 2.6 | 2 |
| 62 | 2D positional mapping of casting condition driven microstructural distribution in organic thin films. Japanese Journal of Applied Physics, 2020, 59, SCCA06. | 1.5 | 2 |
| 63 | Molecular Structure and Crystal Packing of n-Type Semiconducting Material 3′,3′-(1,4-Phenylene)bis{2′-(4′′-trifluoromethyl)phenyl}acrylonitrile. Journal of Crystallography, 202 2014, 1-5. | 140.0 | 0 |
| 64 | Investigation of Orientation in the Thin Films of Conjugated Polymer and NIR Dye Blends Fabricated by Friction Transfer Method. , 2021, , . | | 0 |