# Takafumi Sassa

List of Publications by Year
in descending order

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| 62 | 994 | 687220 13 | 434063 31 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 1015 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Triphenylamine-Based Plasticizer in Controlling Traps and Photorefractivity Enhancement. ACS Applied Electronic Materials, 2021, 3, 2170-2177. | 2.0 | 2 |
| 2 | High-performance organic photorefractive materials containing 2-ethylhexyl plasticized poly(triarylamine). Journal of Materials Chemistry C, 2020, 8, 13357-13367. | 2.7 | 8 |
| 3 | Fabrication of a Fluorophore-Doped Cylindrical Waveguide Structure Using Elastomers for Visual Detection of Stress. Fibers, 2019, 7, 37. | 1.8 | 4 |
| 4 | Light-driven molecular switching of atropisomeric polymers containing azo-binaphthyl groups in their side chains. Polymer Journal, 2018, 50, 455-465. | 1.3 | 6 |
| 5 | Enhancement of Photosensitivity of Photorefractive Ferroelectric Liquid Crystal Blends to Green and Red Wavelength Regions Using Oligothiophene Photoconductive Dopants. Journal of Physical Chemistry C, 2017, 121, 16951-16958. | 1.5 | 2 |
| 6 | Characterization of Carrier Transport and Trapping in Photorefractive Polymer Composites Using Photoemission Yield Spectroscopy in Air. Macromolecular Chemistry and Physics, 2016, 217, 1785-1791. | 1.1 | 5 |
| 7 | Molecular design of azo-carbazole monolithic dyes for updatable full-color holograms. NPG Asia Materials, 2016, 8, e311-e311. | 3.8 | 13 |
| 8 | Laser irradiation durability of photorefractive ferroelectric liquid crystal blends containing terthiophene photoconductive chiral dopants. RSC Advances, 2016, 6, 70573-70580. | 1.7 | 9 |
| 9 | Electron dominated grating in a triphenylamine-based photorefractive composite. Journal of Materials Chemistry C, 2016, 4, 6822-6828. | 2.7 | 3 |
| 10 | Updatable Holographic Diffraction of Monolithic Carbazole-Azobenzene Compound in Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.5 | 15 |
| 11 | Long-lived cis state of azocarbazole dye with strong acceptor highly doped in a polymer matrix. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 622. | 0.9 | 5 |
| 12 | Absorption spectrum analysis based on singular value decomposition for photoisomerization and photodegradation in organic dyes. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 13 | Enhanced photoconductivity and trapping rate through control of bulk state in organic triphenylamine-based photorefractive materials. Organic Electronics, 2014, 15, 3471-3475. | 1.4 | 9 |
| 14 | In Situ KPFM Imaging of Local Photovoltaic Characteristics of Structured Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2014, 6, 1481-1487. | 4.0 | 22 |
| 15 | Light-driven supramolecular chiral materials: photoinduced control of liquid-crystalline helical structures and non-destructive erasable molecular memory for photonic applications. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 16 | Efficient group delay averaging in graded-index plastic optical fiber with microscopic heterogeneous core. Optics Express, 2013, 21, 17379. | 1.7 | 18 |
| 17 | Effects of transient dark currents on the buildup dynamics of refractive index changes in photorefractive polymers excited by pulsed voltage. Optical Materials Express, 2013, 3, 472. | 1.6 | 5 |
| 18 | Fluorination effects on attenuation spectra of plastic optical fiber core materials. Optical Materials Express, 2013, 3, 658. | 1.6 | 4 |

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|---|---|---|---|
| 19 | Formation speed and formation mechanism of self-written surface wave-based waveguides in photorefractive polymers. Optical Materials Express, 2012, 2, 849. | 1.6 | 8 |
| 20 | Influence of the Continuous Application of an External DC Electric Field on Chromophore Orientations of LowTg-photorefractive Polymers. Molecular Crystals and Liquid Crystals, 2012, 568, 82-86. | 0.4 | 0 |
| 21 | Intrinsic transmission bandwidths of graded-index plastic optical fibers. Optics Letters, 2012, 37, 2583. | 1.7 | 18 |
| 22 | Thermally-Induced Phase Transition of Pseudorotaxane Crystals: Changes in Conformation and Interaction of the Molecules and Optical Properties of the Crystals. Journal of the American Chemical Society, 2012, 134, 17932-17944. | 6.6 | 61 |
| 23 | Electron Donor and Acceptor Spatial Distribution in Structured Bulk Heterojunction Photovoltaic Devices Induced by Periodic Photopolymerization. Langmuir, 2012, 28, 10305-10309. | 1.6 | 10 |
| 24 | Simplified procedure for interferometric determination of electro-optic properties of low-Tg photorefractive polymer. Journal of Applied Physics, 2010, 107, 023112. | 1.1 | 5 |
| 25 | Photoinduced Control over the Self-Organized Orientation of Amorphous Molecular Materials Using Polarized Light. Journal of Physical Chemistry B, 2010, 114, 1227-1232. | 1.2 | 16 |
| 26 | Surface waves in photorefractive polymer films. Optics Express, 2009, 17, 14150. | 1.7 | 12 |
| 27 | Optimization of Thickness of Polymeric Photorefractive Thin Film for Large Two-Beam Coupling Strength in Reflection Beam Arrangement. Japanese Journal of Applied Physics, 2007, 46, 4160-4162. | 0.8 | 0 |
| 28 | Grating Formation by Periodic Photopolymerization in Organic Photovoltaic Devices. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 93-95. | 0.1 | 3 |
| 29 | A Crystalline Supramolecular Switch: Controlling the Optical Anisotropy through the Collective Dynamic Motion of Molecules. Angewandte Chemie - International Edition, 2007, 46, 4983-4986. | 7.2 | 47 |
| 30 | Soft-optoelectronics Materials: Efficient Utilization of Molecular Alignment by Prism Couplers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2005, 18, 489-493. | 0.1 | 1 |
| 31 | Synthesis and hyperpolarizabilities of high temperature triarylamine-polyene chromophores. Tetrahedron Letters, 2005, 46, 3913-3916. | 0.7 | 31 |
| 32 | Strongly electric-field-dependent spatial properties of fanning beam in polymeric medium. Applied Physics Letters, 2005, 86, 084103. | 1.5 | 5 |
| 33 | Metalâ"Organic Thin-Film Transistor (MOTFT) Based on a Bis(o-diiminobenzosemiquinonate) Nickel(II) Complex. Journal of the American Chemical Society, 2005, 127, 10012-10013. | 6.6 | 51 |
| 34 | 9-(2-ethylhexyl)carbazole for carrier transport and photorefractive materials. , 2004, 5521, 9. | | 0 |
| 35 | Thermally stable triaryl amino chromophores with high molecular hyperpolarizabilities. Tetrahedron Letters, 2004, 45, 3253-3256. | 0.7 | 53 |
| 36 | Efficient green polymer light-emitting diodes with microcavity effect in electroluminescence spectrum but constant quantum efficiency. Journal of Applied Physics, 2004, 96, 3553-3555. | 1.1 | 5 |

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| 37 | Enhanced photorefractive two-beam coupling in low-T_g polymeric materials with a new device structure. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1255. | 0.9 | 22 |
| 38 | Second- and third-order nonlinear properties of chiral phthalocyanine films. , 2004, , . | | 0 |
| 39 | Third-order nonlinear optical properties of soluble Cr(III)-dioxolene complexes. , 2004, , . | | 0 |
| 40 | Enhanced Third-order Optical Nonlinearity in Helical Assembly of a Chiral Vanadyl Phthalocyanine. Chemistry Letters, 2004, 33, 132-133. | 0.7 | 11 |
| 41 | Formation of an anti-guide structure and observation of enhanced SHG in photorefractive materials. Optical Materials, 2003, 21, 51-54. | 1.7 | 2 |
| 42 | Photorefractive properties of conjugated carbazole polymers. , 2003, , . | | 0 |
| 43 | NLO properties of chiral phthalocyanine films. , 2003, 5212, 282. | | 3 |
| 44 | Theoretical analysis of enhanced second-harmonic generation based on a self-formed antiguide structure. Journal of Applied Physics, 2002, 91, 8942-8949. | 1.1 | 2 |
| 45 | Nanoscale tailoring of dendrimers and polymers for photonic and optoelectronic applications. , 2002, , . | | 1 |
| 46 | <title>Thermally stimulated current and electro-optic responses in stable photorefractive polymers</title>. , 2002, , . | | 0 |
| 47 | Effects of side-chain modification on poling efficiency of highly polarizable nonlinear optical chromophores in electro-optical polymers. , 2002, , . | | 3 |
| 48 | Efficient Two-Photon Absorbing Chromophores with Fine-Tuned Đ»-Bridges. Materials Research Society Symposia Proceedings, 2002, 725, 1. | 0.1 | 1 |
| 49 | Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. Advanced Functional Materials, 2002, 12, 565-574. | 7.8 | 209 |
| 50 | Simultaneous Determination of Average Direction of Molecular Orientation and Effective Second Order Nonlinear Optical Constant (\|dâ€‰eff\|) by Phase Measurements of Second Harmonic Generation. Journal of Physical Chemistry B, 2001, 105, 1763-1769. | 1.2 | 7 |
| 51 | Active formation of an antiguide structure in a photorefractive polymer for enhanced second-harmonic generation. Optics Letters, 2001, 26, 995. | 1.7 | 4 |
| 52 | Analysis of Second Harmonic Generation Phase Measurement for Determination of Molecular Orientation and Effective Second Order Nonlinear Optical Constant. Molecular Crystals and Liquid Crystals, 2001, 370, 135-138. | 0.3 | 0 |
| 53 | Highly Efficient and Thermally Stable Nonlinear Optical Dendrimer for Electrooptics. Journal of the American Chemical Society, 2001, 123, 986-987. | 6.6 | 226 |
| 54 | Highly efficient and thermally stable organic/polymeric electro-optic materials by dendritic approach. , 2001, , . | | 7 |

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| 55 | <title>Synthesis and properties of monolithic photorefractive carbazole-derived calix[4]arenes</title>. , 2000, 4104, 140. | | 1 |
| 56 | Polar Alignment in Spin-Coated Carbazole Main- and Side-Chain Polymer Films. Advanced Materials, 2000, 12, 1196-1199. | 11.1 | 8 |
| 57 | Enhancement of Second-Harmonic Power Due to Self-Construction of an Anti-Guide Structure in a Thin-Film Waveguide of a Nonlinear-Optical Photoconducting Polymer. Japanese Journal of Applied Physics, 1998, 37, L447-L449. | 0.8 | 3 |
| 58 | Effects of reorientation of molecules in a nonlinear-optical photoconducting polymer on formation of an antiguide structure. Journal of Applied Physics, 1998, 84, 4071-4075. | 1.1 | 5 |
| 59 | <title>Photorefractive effect from photo-induced orientation of a novel carbazole derivative</title>. , 1998, 3471, 81. | | 7 |
| 60 | ÄŒerenkov-radiation-type second-harmonic generation in nonlinear-optical photoconducting polymers based on self-organized quasi-phase matching. Optics Letters, 1997, 22, 856. | 1.7 | 7 |
| 61 | Phase-Matched Second Harmonic Generations in Poled Polymer Films Based on Poly (methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf<br>Crystals and Liquid Crystals, 1993, 227, 113-131. | 0.3 | 7 |
| 62 | The Photorefractive Effect in Liquid Crystals. , 0, , . | | 2 |