

Takafumi Sassa

List of Publications by Year in descending order

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62
papers

994
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687220

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31
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63
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docs citations

63
times ranked

1015
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Highly Efficient and Thermally Stable Nonlinear Optical Dendrimer for Electrooptics. <i>Journal of the American Chemical Society</i> , 2001, 123, 986-987. | 6.6 | 226 |
| 2 | Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. <i>Advanced Functional Materials</i> , 2002, 12, 565-574. | 7.8 | 209 |
| 3 | Thermally-Induced Phase Transition of Pseudorotaxane Crystals: Changes in Conformation and Interaction of the Molecules and Optical Properties of the Crystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 17932-17944. | 6.6 | 61 |
| 4 | Thermally stable triaryl amino chromophores with high molecular hyperpolarizabilities. <i>Tetrahedron Letters</i> , 2004, 45, 3253-3256. | 0.7 | 53 |
| 5 | Metal-Organic Thin-Film Transistor (MOTFT) Based on a Bis(o-diiminobenzosemiquinonate) Nickel(II) Complex. <i>Journal of the American Chemical Society</i> , 2005, 127, 10012-10013. | 6.6 | 51 |
| 6 | A Crystalline Supramolecular Switch: Controlling the Optical Anisotropy through the Collective Dynamic Motion of Molecules. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4983-4986. | 7.2 | 47 |
| 7 | Synthesis and hyperpolarizabilities of high temperature triarylamine-polyene chromophores. <i>Tetrahedron Letters</i> , 2005, 46, 3913-3916. | 0.7 | 31 |
| 8 | Enhanced photorefractive two-beam coupling in low-T _g polymeric materials with a new device structure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1255. | 0.9 | 22 |
| 9 | In Situ KPFM Imaging of Local Photovoltaic Characteristics of Structured Organic Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1481-1487. | 4.0 | 22 |
| 10 | Intrinsic transmission bandwidths of graded-index plastic optical fibers. <i>Optics Letters</i> , 2012, 37, 2583. | 1.7 | 18 |
| 11 | Efficient group delay averaging in graded-index plastic optical fiber with microscopic heterogeneous core. <i>Optics Express</i> , 2013, 21, 17379. | 1.7 | 18 |
| 12 | Photoinduced Control over the Self-Organized Orientation of Amorphous Molecular Materials Using Polarized Light. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1227-1232. | 1.2 | 16 |
| 13 | Updatable Holographic Diffraction of Monolithic Carbazole-Azobenzene Compound in Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlo 1.5 15 | | |
| 14 | Molecular design of azo-carbazole monolithic dyes for updatable full-color holograms. <i>NPG Asia Materials</i> , 2016, 8, e311-e311. | 3.8 | 13 |
| 15 | Surface waves in photorefractive polymer films. <i>Optics Express</i> , 2009, 17, 14150. | 1.7 | 12 |
| 16 | Enhanced Third-order Optical Nonlinearity in Helical Assembly of a Chiral Vanadyl Phthalocyanine. <i>Chemistry Letters</i> , 2004, 33, 132-133. | 0.7 | 11 |
| 17 | Electron Donor and Acceptor Spatial Distribution in Structured Bulk Heterojunction Photovoltaic Devices Induced by Periodic Photopolymerization. <i>Langmuir</i> , 2012, 28, 10305-10309. | 1.6 | 10 |
| 18 | Enhanced photoconductivity and trapping rate through control of bulk state in organic triphenylamine-based photorefractive materials. <i>Organic Electronics</i> , 2014, 15, 3471-3475. | 1.4 | 9 |

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|----|---|------|-----------|
| 19 | Laser irradiation durability of photorefractive ferroelectric liquid crystal blends containing terthiophene photoconductive chiral dopants. RSC Advances, 2016, 6, 70573-70580. | 1.7 | 9 |
| 20 | Polar Alignment in Spin-Coated Carbazole Main- and Side-Chain Polymer Films. Advanced Materials, 2000, 12, 1196-1199. | 11.1 | 8 |
| 21 | Formation speed and formation mechanism of self-written surface wave-based waveguides in photorefractive polymers. Optical Materials Express, 2012, 2, 849. | 1.6 | 8 |
| 22 | High-performance organic photorefractive materials containing 2-ethylhexyl plasticized poly(triarylamine). Journal of Materials Chemistry C, 2020, 8, 13357-13367. | 2.7 | 8 |
| 23 | Phase-Matched Second Harmonic Generations in Poled Polymer Films Based on Poly (methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Crystals and Liquid Crystals, 1993, 227, 113-131. | 0.3 | 7 |
| 24 | ÄErenkov-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 |
| 25 | <title>Photorefractive effect from photo-induced orientation of a novel carbazole derivative</title>. , 1998, 3471, 81. | | 7 |
| 26 | Simultaneous Determination of Average Direction of Molecular Orientation and Effective Second Order Nonlinear Optical Constant ($ d_{\text{eff}} $) by Phase Measurements of Second Harmonic Generation. Journal of Physical Chemistry B, 2001, 105, 1763-1769. | 1.2 | 7 |
| 27 | Highly efficient and thermally stable organic/polymeric electro-optic materials by dendritic approach. , 2001, , . | | 7 |
| 28 | Light-driven molecular switching of atropisomeric polymers containing azo-binaphthyl groups in their side chains. Polymer Journal, 2018, 50, 455-465. | 1.3 | 6 |
| 29 | 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 |
| 30 | 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 |
| 31 | Strongly electric-field-dependent spatial properties of fanning beam in polymeric medium. Applied Physics Letters, 2005, 86, 084103. | 1.5 | 5 |
| 32 | Simplified procedure for interferometric determination of electro-optic properties of low-Tg photorefractive polymer. Journal of Applied Physics, 2010, 107, 023112. | 1.1 | 5 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Active formation of an antiguide structure in a photorefractive polymer for enhanced second-harmonic generation. Optics Letters, 2001, 26, 995. | 1.7 | 4 |

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|----|---|-----|-----------|
| 37 | Fluorination effects on attenuation spectra of plastic optical fiber core materials. <i>Optical Materials Express</i> , 2013, 3, 658. | 1.6 | 4 |
| 38 | Fabrication of a Fluorophore-Doped Cylindrical Waveguide Structure Using Elastomers for Visual Detection of Stress. <i>Fibers</i> , 2019, 7, 37. | 1.8 | 4 |
| 39 | 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. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L447-L449. | 0.8 | 3 |
| 40 | Effects of side-chain modification on poling efficiency of highly polarizable nonlinear optical chromophores in electro-optical polymers. , 2002, , . | | 3 |
| 41 | NLO properties of chiral phthalocyanine films. , 2003, 5212, 282. | | 3 |
| 42 | Grating Formation by Periodic Photopolymerization in Organic Photovoltaic Devices. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2007, 20, 93-95. | 0.1 | 3 |
| 43 | Electron dominated grating in a triphenylamine-based photorefractive composite. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6822-6828. | 2.7 | 3 |
| 44 | Theoretical analysis of enhanced second-harmonic generation based on a self-formed antiguide structure. <i>Journal of Applied Physics</i> , 2002, 91, 8942-8949. | 1.1 | 2 |
| 45 | Formation of an anti-guide structure and observation of enhanced SHG in photorefractive materials. <i>Optical Materials</i> , 2003, 21, 51-54. | 1.7 | 2 |
| 46 | Enhancement of Photosensitivity of Photorefractive Ferroelectric Liquid Crystal Blends to Green and Red Wavelength Regions Using Oligothiophene Photoconductive Dopants. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16951-16958. | 1.5 | 2 |
| 47 | The Photorefractive Effect in Liquid Crystals. , 0, , . | | 2 |
| 48 | Triphenylamine-Based Plasticizer in Controlling Traps and Photorefractivity Enhancement. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2170-2177. | 2.0 | 2 |
| 49 | <title>Synthesis and properties of monolithic photorefractive carbazole-derived calix[4]arenes</title>. , 2000, 4104, 140. | | 1 |
| 50 | Nanoscale tailoring of dendrimers and polymers for photonic and optoelectronic applications. , 2002, , . | | 1 |
| 51 | Efficient Two-Photon Absorbing Chromophores with Fine-Tuned π -Bridges. <i>Materials Research Society Symposia Proceedings</i> , 2002, 725, 1. | 0.1 | 1 |
| 52 | Soft-optoelectronics Materials: Efficient Utilization of Molecular Alignment by Prism Couplers. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2005, 18, 489-493. | 0.1 | 1 |
| 53 | Analysis of Second Harmonic Generation Phase Measurement for Determination of Molecular Orientation and Effective Second Order Nonlinear Optical Constant. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 370, 135-138. | 0.3 | 0 |
| 54 | <title>Thermally stimulated current and electro-optic responses in stable photorefractive polymers</title>. , 2002, , . | | 0 |

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|----|---|-----|-----------|
| 55 | Photorefractive properties of conjugated carbazole polymers. , 2003, , . | | 0 |
| 56 | 9-(2-ethylhexyl)carbazole for carrier transport and photorefractive materials. , 2004, 5521, 9. | | 0 |
| 57 | Second- and third-order nonlinear properties of chiral phthalocyanine films. , 2004, , . | | 0 |
| 58 | Third-order nonlinear optical properties of soluble Cr(III)-dioxolene complexes. , 2004, , . | | 0 |
| 59 | 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 |
| 60 | Influence of the Continuous Application of an External DC Electric Field on Chromophore Orientations of LowT _g -photorefractive Polymers. Molecular Crystals and Liquid Crystals, 2012, 568, 82-86. | 0.4 | 0 |
| 61 | 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 |
| 62 | Absorption spectrum analysis based on singular value decomposition for photoisomerization and photodegradation in organic dyes. Proceedings of SPIE, 2015, , . | 0.8 | 0 |