

Martins Rutkis

List of Publications by Year in descending order

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73
papers

460
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759233

12
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839539

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73
all docs

73
docs citations

73
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	Triphenyl moieties as building blocks for obtaining molecular glasses with nonlinear optical activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 11268.	6.7	47
2	Novel second-order nonlinear optical polymer materials containing indandione derivatives as a chromophore. , 2006, 6192, 513.		25
3	Thin Film Organic Thermoelectric Generator Based on Tetrathiotetracene. <i>Advanced Electronic Materials</i> , 2017, 3, 1600429.	5.1	23
4	Modular approach to obtaining organic glasses from low-molecular weight dyes using 1,1,1-triphenylpentane auxiliary groups: Nonlinear optical properties. <i>Dyes and Pigments</i> , 2013, 99, 1044-1050.	3.7	19
5	All-organic electro-optic waveguide modulator comprising SU-8 and nonlinear optical polymer. <i>Optics Express</i> , 2017, 25, 31036.	3.4	19
6	Study of Structureâ€“Third-Order Susceptibility Relation of Indandione Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27515-27522.	3.1	18
7	Structureâ€“property relationship of isomeric diphenylethenyl-disubstituted dimethoxycarbazoles. <i>RSC Advances</i> , 2015, 5, 49577-49589.	3.6	17
8	Derivatives of indandione and differently substituted triphenylamine with charge-transporting and NLO properties. <i>Dyes and Pigments</i> , 2015, 113, 38-46.	3.7	17
9	Effect of Corona Poling and Thermo Cycling Sequence on NLO Properties of The Guest-Host System. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 485, 873-880.	0.9	16
10	Novel azobenzene precursors for NLO active polyuretanes: Synthesis, quantum chemical and experimental characterization. <i>Optical Materials</i> , 2009, 31, 1600-1607.	3.6	14
11	Donor and acceptor substituted triphenylamines exhibiting bipolar charge-transporting and NLO properties. <i>Dyes and Pigments</i> , 2017, 140, 431-440.	3.7	14
12	Self-assembled monolayers of azobenzene functionalized 1,3,5-triazine-4,6-dithiols. <i>Materials Science and Engineering C</i> , 2002, 22, 339-343.	7.3	13
13	New Figure of Merit for Tailoring Optimal Structure of the Second Order NLO Chromophore for Guest-Host Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 485, 903-914.	0.9	13
14	Structural and optical characterization of Ba _{0.8} Sr _{0.2} TiO ₃ PLD deposited films. <i>Optical Materials</i> , 2008, 30, 1017-1022.	3.6	12
15	Indanedione based binary chromophore supramolecular systems as a NLO active polymer composites. <i>Optical Materials</i> , 2010, 32, 796-802.	3.6	12
16	Structure-dependent tuning of electro-optic and thermoplastic properties in triphenyl groups containing molecular glasses. <i>Materials Chemistry and Physics</i> , 2015, 155, 232-240.	4.0	12
17	Stereoselective synthesis and properties of 1,3-bis(dicyanomethylidene)indane-5-carboxylic acid acceptor fragment containing nonlinear optical chromophores. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5019-5030.	5.5	11
18	Triphenyl group containing molecular glasses of azobenzene for photonic applications. <i>Optical Materials</i> , 2016, 53, 146-154.	3.6	11

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19	Reversible trans/cis photoisomerization in Langmuir-Blodgett multilayers from polyfunctional azobenzenes. <i>Supramolecular Science</i> , 1997, 4, 369-374.	0.7	10
20	Impact of aggregates on excitation dynamics in transparent polymer films doped by dipolar molecules. <i>Thin Solid Films</i> , 2008, 516, 8909-8916.	1.8	9
21	Synthesis of azobenzene substituted tripod-shaped bi(p-phenylene)s. Adsorption on gold and CdS quantum-dots surfaces. <i>Tetrahedron</i> , 2013, 69, 3465-3474.	1.9	9
22	Origin of the Kerr effect: investigation of solutions by polarization-dependent Z-scan. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1806.	2.1	9
23	Stability of the functional NLO polymers—optically induced depoling of the DMABI molecules in PMMA matrix. <i>Thin Solid Films</i> , 2008, 516, 8937-8943.	1.8	8
24	Review and comparison of experimental techniques used for determination of thin film electro-optic coefficients. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1867-1879.	1.8	7
25	All-Organic Waveguide Sensor for Volatile Solvent Sensing. <i>Photonic Sensors</i> , 2019, 9, 356-366.	5.0	6
26	Photoactive amino acid derivatives with long alkyl chains. <i>Amino Acids</i> , 1996, 10, 333-343.	2.7	5
27	Nonlinear optical properties of low molecular organic glasses formed by triphenyl modified chromophores. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 38, 012034.	0.6	5
28	Electrooptic coefficient measurements by Mach Zehnder interferometric method: Application of Abel's matrix formalism for thin film polymeric sample description. <i>Optics Communications</i> , 2013, 286, 357-362.	2.1	5
29	Reversible optical storage utilizing photoinduced reorientation of azobenzene derivatives in organized films. <i>Ferroelectrics</i> , 2001, 258, 101-112.	0.6	4
30	Hyper-Rayleigh scattering and two-photon luminescence of phenylamine- indandione chromophores. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 38, 012035.	0.6	4
31	Poling Induced Mass Transport in Thin Polymer Films. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2812-2819.	2.6	4
32	Tetrathiotetracene thin film morphology and electrical properties. <i>Thin Solid Films</i> , 2016, 598, 214-218.	1.8	4
33	Mach-Zehnder interferometer implementation for thermo-optical and Kerr effect study. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	4
34	<title>Linear dichroism investigations of the surface-pressure-induced phase transitions in surface-active dimethylaminobenzylidene 1,3-indandione Langmuir and Langmuir-Blodgett films</title>. , 1997, , .		3
35	Influence of corona poling procedures on linear and non-linear optical properties of polymer materials containing indandione derivatives as a cromophores. , 2008, , .		3
36	Insight in NLO Polymer Material Behavior from Langevin Dynamic Modeling of Chromophore Poling. <i>Integrated Ferroelectrics</i> , 2011, 123, 53-65.	0.7	3

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37	Chromofore Poling in Thin Films of Organic Glasses. 1. Overview of Corona Discharge Application. Latvian Journal of Physics and Technical Sciences, 2011, 48, .	0.6	3
38	Synthesis, optical, and thermal properties of glassy trityl group containing luminescent derivatives of 2-tert-butyl-6-methyl-4H-pyran-4-one. Proceedings of SPIE, 2012, , .	0.8	3
39	Chromophore Poling in Thin Films of Organic Glasses. 2. Two-Electrode Corona Discharge Setup. Latvian Journal of Physics and Technical Sciences, 2012, 49, 62-70.	0.6	3
40	Simple method for measuring bilayer system optical parameters. , 2012, , .		3
41	Optical propagation loss measurements in electro optical host-guest waveguides. Proceedings of SPIE, 2013, , .	0.8	3
42	Chromophore Poling in Thin Films of Organic Glasses. 3. Setup for Corona Triode Discharge / Hromoforu Polarizācija Plānās Organisko Stiklu Kartītās 3. Koronas Izlādes Triodes Ierāce. Latvian Journal of Physics and Technical Sciences, 2013, 50, 66-75.	0.6	3
43	4-(Diethylamino)salicylaldehyde-based twin compounds as NLO-active materials. Dyes and Pigments, 2016, 134, 244-250.	3.7	3
44	Synthesis and thermoelectric properties of 2- and 2,8-substituted tetrathiotetracenes. Journal of Materials Chemistry C, 2018, 6, 3403-3409.	5.5	3
45	Dendronized azochromophores with aromatic and perfluoroaromatic fragments: Synthesis and properties demonstrating Ar ArF interactions. Dyes and Pigments, 2019, 162, 394-404.	3.7	3
46	Reduction of Electric Breakdown Voltage in LC Switching Shutters / Elektriskās Cauršites Sprieguma Samazināšana Āidro Kristālu Ārēs. Latvian Journal of Physics and Technical Sciences, 2015, 52, 47-57.	0.6	3
47	Bis(N-naphthyl-N-phenylamino)benzophenones as exciton-modulating materials for white TADF OLEDs with separated charge and exciton recombination zones. Dyes and Pigments, 2022, 197, 109868.	3.7	3
48	Toward device applicable second order NLO polymer materials: definition of the chromophore figure of merit. Journal of Physics: Conference Series, 2007, 93, 012028.	0.4	2
49	Rational computing of energy levels for organic electronics: the case of 2-benzylidene-1,3-indandiones. RSC Advances, 2016, 6, 85242-85253.	3.6	2
50	Impact of silver nanoparticle two-photon resonance on Kerr effect of organic dye solutions. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 22.	2.1	2
51	<title>All-optical poling of DMABI molecules in a polymer matrix</title>. , 2005, 5946, 186.		1
52	Light induced processes in thin films of indandione type organic molecules. , 2007, , .		1
53	Hybrid silicon on insulator/polymer electro-optical intensity modulator operating at 780nm. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2446.	2.1	1
54	Optimized Deposition of Graphene Oxide Langmuir-Blodgett Thin Films. Latvian Journal of Physics and Technical Sciences, 2014, 51, 61-68.	0.6	1

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55	Triphenylmethyl and triphenylsilyl based molecular glasses for photonic applications. Proceedings of SPIE, 2015, , .	0.8	1
56	Multifunctional derivatives of dimethoxy-substituted triphenylamine containing different acceptor moieties. SN Applied Sciences, 2020, 2, 1.	2.9	1
57	Spectroscopic equilibrium-constant determination for a system with several hydrogen bonds. Journal of Applied Spectroscopy, 1986, 44, 512-518.	0.7	0
58	Synthesis and nonlinear optical properties of novel N,N-dihydroxyethyl-based molecular organic glasses using triaryl substitutes as amorphous phase formation enhancers. Proceedings of SPIE, 2011, , .	0.8	0
59	An improved molecular design of obtaining NLO active molecular glasses using triphenyl moieties as amorphous phase formation enhancers. , 2012, , .		0
60	Inspirations for EO polymer design gained from modeling of chromophore poling by Langevin dynamics. Proceedings of SPIE, 2013, , .	0.8	0
61	Thermal, glass-forming, nonlinear optical and holographic properties of "push-pull" type azochromophores with triphenyl moieties containing isophorene and pyranilidene fragments. Proceedings of SPIE, 2013, , .	0.8	0
62	Thermal and optical properties of 4H-pyran-4-ylidene fragment and bis-styryl and triphenyl groups containing derivatives. , 2014, , .		0
63	Screen Printing of SU-8 Layers for Microstructure Fabrication / Ar Sietspiedi UzklÅtu SU-8 PÅrkÅjumi Mikro-StruktÅru IzgatavoÅjanai. Latvian Journal of Physics and Technical Sciences, 2015, 52, 58-67.	0.6	0
64	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSFÅ“2014Å“FM&NT). Physica Scripta, 2015, 90, 090301.	2.5	0
65	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSFÅ“2014Å“FM&NT). IOP Conference Series: Materials Science and Engineering, 2015, 77, 011001.	0.6	0
66	Dielectric breakdown of fast switching LCD shutters. Proceedings of SPIE, 2017, , .	0.8	0
67	Determination of Kerr and two-photon absorption coefficients of indandione derivatives. , 2017, , .		0
68	Poling dynamics of an EO active material using parallel-plate electrodes. , 2017, , .		0
69	<title>Amide or sulfonamide groups containing azobenzenes for Langmuir-Blodgett films</title>. , 1997, , .		0
70	Determination of Kerr and two-photon absorption coefficients of ABI thin films. , 2018, , .		0
71	Asymmetrical all-organic waveguide gas sensor. , 2019, , .		0
72	Z-scan extensions for inclusive study of nonlinear refractive index. , 2021, , .		0

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73	Utilization of amorphous phase forming trityl groups and Ar-ArF interactions in synthesis of NLO active azochromophores. <i>Dyes and Pigments</i> , 2022, , 110395.	3.7	0