

# Martins Rutkis

## List of Publications by Year in descending order

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73  
papers

460  
citations

759233

12  
h-index

839539

18  
g-index

73  
all docs

73  
docs citations

73  
times ranked

510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bis(N-naphthyl-N-phenylamino)benzophenones as exciton-modulating materials for white TADF OLEDs with separated charge and exciton recombination zones. <i>Dyes and Pigments</i> , 2022, 197, 109868.	3.7	3
2	Impact of silver nanoparticle two-photon resonance on Kerr effect of organic dye solutions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 22.	2.1	2
3	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
4	Z-scan extensions for inclusive study of nonlinear refractive index. , 2021, , .		0
5	Multifunctional derivatives of dimethoxy-substituted triphenylamine containing different acceptor moieties. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	1
6	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
7	All-Organic Waveguide Sensor for Volatile Solvent Sensing. <i>Photonic Sensors</i> , 2019, 9, 356-366.	5.0	6
8	Dendronized azochromophores with aromatic and perfluoroaromatic fragments: Synthesis and properties demonstrating Ar ArF interactions. <i>Dyes and Pigments</i> , 2019, 162, 394-404.	3.7	3
9	Asymmetrical all-organic waveguide gas sensor. , 2019, , .		0
10	Synthesis and thermoelectric properties of 2- and 2,8-substituted tetrathiotetracenes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3403-3409.	5.5	3
11	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
12	Determination of Kerr and two-photon absorption coefficients of ABI thin films. , 2018, , .		0
13	Donor and acceptor substituted triphenylamines exhibiting bipolar charge-transporting and NLO properties. <i>Dyes and Pigments</i> , 2017, 140, 431-440.	3.7	14
14	Dielectric breakdown of fast switching LCD shutters. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
15	Determination of Kerr and two-photon absorption coefficients of indandione derivatives. , 2017, , .		0
16	Poling dynamics of an EO active material using parallel-plate electrodes. , 2017, , .		0
17	Thin Film Organic Thermoelectric Generator Based on Tetrathiotetracene. <i>Advanced Electronic Materials</i> , 2017, 3, 1600429.	5.1	23
18	All-organic electro-optic waveguide modulator comprising SU-8 and nonlinear optical polymer. <i>Optics Express</i> , 2017, 25, 31036.	3.4	19

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19	4-(Diethylamino)salicylaldehyde-based twin compounds as NLO-active materials. <i>Dyes and Pigments</i> , 2016, 134, 244-250.	3.7	3
20	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
21	Rational computing of energy levels for organic electronics: the case of 2-benzylidene-1,3-indandiones. <i>RSC Advances</i> , 2016, 6, 85242-85253.	3.6	2
22	Study of Structure-Third-Order Susceptibility Relation of Indandione Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27515-27522.	3.1	18
23	Tetrathiotetracene thin film morphology and electrical properties. <i>Thin Solid Films</i> , 2016, 598, 214-218.	1.8	4
24	Triphenyl group containing molecular glasses of azobenzene for photonic applications. <i>Optical Materials</i> , 2016, 53, 146-154.	3.6	11
25	Screen Printing of SU-8 Layers for Microstructure Fabrication / Ar Sietspiedi UzklĀtĀu SU-8 PĀrklĀjumi Mikro-StruktĀru IzgatavoĀjanai. <i>Latvian Journal of Physics and Technical Sciences</i> , 2015, 52, 58-67.	0.6	0
26	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSF-2014-FM&NT). <i>Physica Scripta</i> , 2015, 90, 090301.	2.5	0
27	12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference on Functional Materials and Nanotechnologies (RCBJSF-2014-FM&NT). <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 77, 011001.	0.6	0
28	Triphenylmethyl and triphenylsilyl based molecular glasses for photonic applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
29	Structure-property relationship of isomeric diphenylethenyl-disubstituted dimethoxycarbazoles. <i>RSC Advances</i> , 2015, 5, 49577-49589.	3.6	17
30	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
31	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
32	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
33	Reduction of Electric Breakdown Voltage in LC Switching Shutters / ElektriskĀs Caursites Sprieguma SamazinĀšana Āidro KristĀu ĀnĀs. <i>Latvian Journal of Physics and Technical Sciences</i> , 2015, 52, 47-57.	0.6	3
34	Hybrid silicon on insulator/polymer electro-optical intensity modulator operating at 780nm. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2446.	2.1	1
35	Thermal and optical properties of 4H-pyran-4-ylidene fragment and bis-styryl and triphenyl groups containing derivatives. , 2014, , .		0
36	Optimized Deposition of Graphene Oxide Langmuir-Blodgett Thin Films. <i>Latvian Journal of Physics and Technical Sciences</i> , 2014, 51, 61-68.	0.6	1

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37	Inspirations for EO polymer design gained from modeling of chromophore poling by Langevin dynamics. Proceedings of SPIE, 2013, , .	0.8	0
38	Modular approach to obtaining organic glasses from low-molecular weight dyes using 1,1,1-triphenylpentane auxiliary groups: Nonlinear optical properties. Dyes and Pigments, 2013, 99, 1044-1050.	3.7	19
39	Synthesis of azobenzene substituted tripod-shaped bi(p-phenylene)s. Adsorption on gold and CdS quantum-dots surfaces. Tetrahedron, 2013, 69, 3465-3474.	1.9	9
40	Poling Induced Mass Transport in Thin Polymer Films. Journal of Physical Chemistry B, 2013, 117, 2812-2819.	2.6	4
41	Optical propagation loss measurements in electro optical host-guest waveguides. Proceedings of SPIE, 2013, , .	0.8	3
42	Electrooptic coefficient measurements by Mach Zehnder interferometric method: Application of Abel's matrix formalism for thin film polymeric sample description. Optics Communications, 2013, 286, 357-362.	2.1	5
43	Chromophore Poling in Thin Films of Organic Glasses. 3. Setup for Corona Triode Discharge / Hromoforu Polarizācija Organisko Stiklu Kārtiņās 3. Koronas Izlādes Triodes Ierāce. Latvian Journal of Physics and Technical Sciences, 2013, 50, 66-75.		3
44	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
45	Hyper-Rayleigh scattering and two-photon luminescence of phenylamine- indandione chromophores. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012035.	0.6	4
46	Triphenyl moieties as building blocks for obtaining molecular glasses with nonlinear optical activity. Journal of Materials Chemistry, 2012, 22, 11268.	6.7	47
47	Nonlinear optical properties of low molecular organic glasses formed by triphenyl modified chromophores. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012034.	0.6	5
48	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
49	An improved molecular design of obtaining NLO active molecular glasses using triphenyl moieties as amorphous phase formation enhancers. , 2012, , .		0
50	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
51	Simple method for measuring bilayer system optical parameters. , 2012, , .		3
52	Insight in NLO Polymer Material Behavior from Langevin Dynamic Modeling of Chromophore Poling. Integrated Ferroelectrics, 2011, 123, 53-65.	0.7	3
53	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
54	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

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55	Indanedione based binary chromophore supramolecular systems as a NLO active polymer composites. Optical Materials, 2010, 32, 796-802.	3.6	12
56	Novel azobenzene precursors for NLO active polyuretan: Synthesis, quantum chemical and experimental characterization. Optical Materials, 2009, 31, 1600-1607.	3.6	14
57	Stability of the functional NLO polymers – optically induced depoling of the DMABI molecules in sPMMA matrix. Thin Solid Films, 2008, 516, 8937-8943.	1.8	8
58	Impact of aggregates on excitation dynamics in transparent polymer films doped by dipolar molecules. Thin Solid Films, 2008, 516, 8909-8916.	1.8	9
59	Structural and optical characterization of Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> PLD deposited films. Optical Materials, 2008, 30, 1017-1022.	3.6	12
60	New Figure of Merit for Tailoring Optimal Structure of the Second Order NLO Chromophore for Guest-Host Polymers. Molecular Crystals and Liquid Crystals, 2008, 485, 903-914.	0.9	13
61	Effect of Corona Poling and Thermo Cycling Sequence on NLO Properties of The Guest-Host System. Molecular Crystals and Liquid Crystals, 2008, 485, 873-880.	0.9	16
62	Influence of corona poling procedures on linear and non-linear optical properties of polymer materials containing indandione derivatives as a cromophores. , 2008, , .		3
63	Light induced processes in thin films of indandione type organic molecules. , 2007, , .		1
64	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
65	Novel second-order nonlinear optical polymer materials containing indandione derivatives as a chromophore. , 2006, 6192, 513.		25
66	<title>All-optical poling of DMABI molecules in a polymer matrix</title>. , 2005, 5946, 186.		1
67	Self-assembled monolayers of azobenzene functionalized 1,3,5-triazine-4,6-dithiols. Materials Science and Engineering C, 2002, 22, 339-343.	7.3	13
68	Reversible optical storage utilizing photoinduced reorientation of azobenzene derivatives in organized films. Ferroelectrics, 2001, 258, 101-112.	0.6	4
69	<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
70	Reversible trans/cis photoisomerization in Langmuir-Blodgett multilayers from polyfunctional azobenzenes. Supramolecular Science, 1997, 4, 369-374.	0.7	10
71	<title>Amide or sulfonamide groups containing azobenzenes for Langmuir-Blodgett films</title>. , 1997, , .		0
72	Photoactive amino acid derivatives with long alkyl chains. Amino Acids, 1996, 10, 333-343.	2.7	5

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73	Spectroscopic equilibrium-constant determination for a system with several hydrogen bonds. Journal of Applied Spectroscopy, 1986, 44, 512-518.	0.7	0