

Aivars Vembris

List of Publications by Year in descending order

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papers

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840776

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64
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367
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and optical properties of red luminescent glass forming symmetric and non symmetric styryl-4H-pyran-4-ylidene fragment containing derivatives. <i>Optical Materials</i> , 2012, 34, 1501-1506.	3.6	29
2	Novel second-order nonlinear optical polymer materials containing indandione derivatives as a chromophore. , 2006, 6192, 513.		25
3	On the development of a new approach to the design of lanthanide-based materials for solution-processed OLEDs. <i>Dalton Transactions</i> , 2019, 48, 17298-17309.	3.3	25
4	Thiazoline Carbene-Cu(I)-Amide complexes: Efficient White Electroluminescence from Combined Monomer and Excimer Emission. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15478-15493.	8.0	25
5	Thin Film Organic Thermoelectric Generator Based on Tetrathiotetracene. <i>Advanced Electronic Materials</i> , 2017, 3, 1600429.	5.1	23
6	Fluorescence and amplified spontaneous emission of glass forming compounds containing styryl-4H-pyran-4-ylidene fragment. <i>Journal of Luminescence</i> , 2012, 132, 2421-2426.	3.1	21
7	All-organic fast intersystem crossing assisted exciplexes exhibiting sub-microsecond thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4532-4543.	5.5	18
8	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
9	Solid state solvation effect and reduced amplified spontaneous emission threshold value of glass forming DCM derivative in PMMA films. <i>Journal of Luminescence</i> , 2015, 158, 441-446.	3.1	15
10	Carbene-Metal Complexes As Molecular Scaffolds for Construction of through-Space Thermally Activated Delayed Fluorescence Emitters. <i>Inorganic Chemistry</i> , 2022, 61, 2174-2185.	4.0	14
11	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
12	Stimulated emission and optical properties of pyraniliden fragment containing compounds in PVK matrix. <i>Optics and Laser Technology</i> , 2017, 95, 74-80.	4.6	12
13	Sb ₂ S ₃ solar cells with a cost-effective and dopant-free fluorene-based enamine as a hole transport material. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3220-3229.	4.9	12
14	Photophysical and Electrical Properties of Highly Luminescent 2/6-Triazolyl-Substituted Push-Pull Purines. <i>ACS Omega</i> , 2022, 7, 5242-5253.	3.5	11
15	Solution processable 2-(trityloxy)ethyl and tert-butyl group containing amorphous molecular glasses of pyranilidene derivatives with light-emitting and amplified spontaneous emission properties. <i>Optical Materials</i> , 2015, 49, 129-137.	3.6	10
16	Energy level determination in bulk heterojunction systems using photoemission yield spectroscopy: case of P3HT:PCBM. <i>Journal of Materials Science</i> , 2018, 53, 7506-7515.	3.7	9
17	Stability of the functional NLO polymers-optically induced depoling of the DMABI molecules in sPMMA matrix. <i>Thin Solid Films</i> , 2008, 516, 8937-8943.	1.8	8
18	Thiophenylmethane based structural fragments as building blocks towards solution-processable heteroleptic iridium(III) complexes for OLED use. <i>New Journal of Chemistry</i> , 2019, 43, 37-47.	2.8	8

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19	Emission Enhancement by Intramolecular Stacking between Heteroleptic Iridium(III) Complex and Flexibly Bridged Aromatic Pendant Group. <i>Inorganic Chemistry</i> , 2019, 58, 4214-4222.	4.0	8
20	Light emitting and electrical properties of pure amorphous thin films of organic compounds containing 2-tert-butyl-6-methyl-4H-pyran-4-ylidene. <i>Optical Materials</i> , 2013, 36, 529-534.	3.6	7
21	Photoinduced mass transport in low molecular organic glasses and its practical application in holography. <i>Journal of Non-Crystalline Solids</i> , 2015, 421, 48-53.	3.1	5
22	Glass-forming derivatives of 2-cyano-2-(4H-pyran-4-ylidene) acetate for light-amplification systems. <i>Dyes and Pigments</i> , 2019, 163, 62-70.	3.7	5
23	Relation between molecule ionization energy, film thickness and morphology of two indandione derivatives thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 95, 12-18.	4.0	4
24	Tetrathiotetracene thin film morphology and electrical properties. <i>Thin Solid Films</i> , 2016, 598, 214-218.	1.8	4
25	Effects of steric encumbrance of iridium(iii) complex core on performance of solution-processed organic light emitting diodes. <i>RSC Advances</i> , 2020, 10, 27552-27559.	3.6	4
26	Influence of corona poling procedures on linear and non-linear optical properties of polymer materials containing indandione derivatives as a chromophores. , 2008, , .		3
27	Novel Amorphous Red Electroluminescence Material Based on Pyranlydene Indene-1,3-Dione Derivative. <i>Latvian Journal of Physics and Technical Sciences</i> , 2010, 47, .	0.6	3
28	Pyranlydene indene-1,3-dione derivatives as an amorphous red electroluminescence material. <i>Journal of Photonics for Energy</i> , 2011, 1, 011001.	1.3	3
29	Synthesis, optical, and thermal properties of glassy trityl group containing luminescent derivatives of 2-tert-butyl-6-methyl-4H-pyran-4-one. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
30	Chromophore Poling in Thin Films of Organic Glasses. 2. Two-Electrode Corona Discharge Setup. <i>Latvian Journal of Physics and Technical Sciences</i> , 2012, 49, 62-70.	0.6	3
31	Improvement of Solar PV Efficiency. Potential Materials for Organic Photovoltaic Cells. <i>Environmental and Climate Technologies</i> , 2013, 12, 28-33.	0.2	3
32	Photoelectrical properties of indandione fragment containing azobenzene compounds. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
33	Impact of the molecular structure of an indandione fragment containing azobenzene derivatives on the morphology and electrical properties of thin films. <i>Materials Chemistry and Physics</i> , 2016, 173, 117-125.	4.0	3
34	Influence of organic material and sample parameters on the surface potential in Kelvin probe measurements. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	3
35	Eu ³⁺ ternary and tetrakis complexes with carbazole and methyl group substituted dibenzoylmethane derivatives: Induction of aggregation enhanced emission. <i>Dyes and Pigments</i> , 2019, 163, 257-266.	3.7	3
36	Glass-forming nonsymmetric DWK-dyes with 5,5,5-triphenylpentyl and piparazine moieties for light-amplification studies. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	3

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37	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
38	Photovoltaic properties of glass forming pyraniliden derivatives in thin films. IOP Conference Series: Materials Science and Engineering, 2013, 49, 012055.	0.6	2
39	Study of the P3HT/PCBM interface using photoemission yield spectroscopy. Proceedings of SPIE, 2016, , .	0.8	2
40	HAPPY Dyes as Light Amplification Media in Thin Films. Journal of Organic Chemistry, 2021, 86, 3213-3222.	3.2	2
41	<title>All-optical poling of DMABI molecules in a polymer matrix</title>. , 2005, 5946, 186.		1
42	Synthesis and Physical Properties of Red Luminescent Glass Forming Pyranilidene and Isophorene Fragment Containing Derivatives. , 2012, , .		1
43	Amplified spontaneous emission of glass forming DCM derivatives in PMMA films. Proceedings of SPIE, 2014, , .	0.8	1
44	Energy structure and electro-optical properties of organic layers with carbazole derivative. Thin Solid Films, 2014, 556, 405-409.	1.8	1
45	Glass-forming non-symmetric bis-styryl-DWK-type dyes for infra-red radiation amplification systems. Optical Materials, 2019, 93, 85-92.	3.6	1
46	Synthesis and investigation of charge transport properties in adducts of hole transporting carbazole derivatives and push-pull azobenzenes. Journal of Physics and Chemistry of Solids, 2019, 127, 178-185.	4.0	1
47	Energy level determination of purine containing blue light emitting organic compounds. , 2018, , .		1
48	Solution processable piperazine and triphenyl moiety containing non-symmetric bis-styryl-DWK type molecular glasses with light-emitting and amplified spontaneous emission properties. , 2018, , .		1
49	<title>Optically induced degradation of some betaine dyes</title>. , 2003, , .		0
50	Light-emitting thin films of glassy forming organic compounds containing 2-tert-butyl-6-methyl-4H-pyran-4-ylidene. , 2012, , .		0
51	Thermal and optical properties of 4H-pyran-4-ylidene fragment and bis-styryl and triphenyl groups containing derivatives. , 2014, , .		0
52	Optical properties of the low-molecular amorphous azochromophores and their application in holography. Journal of Physics: Conference Series, 2015, 619, 012055.	0.4	0
53	Amplified spontaneous emission of pyraniliden derivatives in PVK matrix. Proceedings of SPIE, 2016, , .	0.8	0
54	Photovoltaic effect in bulk heterojunction system with glass forming indandione derivative DMABI-6Ph. Energy Procedia, 2018, 147, 573-580.	1.8	0

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55	Several Derivatives of 6-(Tert-Butyl)-4H-Pyran-4-Ylidene Malononitrile with Different Amorphous Phase Promoting Substituents for Light-Amplification Systems. <i>Key Engineering Materials</i> , 2019, 800, 275-279.	0.4	0
56	New Electroactive Polymers with Electronically Isolated 4,7-Diarylfluorene Chromophores as Positive Charge Transporting Layer Materials for OLEDs. <i>Molecules</i> , 2021, 26, 1936.	3.8	0
57	3,3'-Bicarbazole structural derivatives as charge transporting materials for use in OLED devices. , 2018, , .		0
58	Solution-processable green phosphorescent iridium(III) complexes bearing 3,3,3-triphenylpropionic acid fragment for use in OLEDs. , 2018, , .		0
59	Optical and amplified spontaneous emission of neat films containing 2-cyanoacetic derivatives. , 2018, , .		0
60	Investigation of photoluminescence and amplified spontaneous emission properties of cyanoacetic acid derivative (KTB) in PVK amorphous thin films. , 2018, , .		0
61	Glassy 2-(1-benzyl-2-styryl-6-methylpyridin-4(1H)-ylidene) fragment containing 1H-indene-1,3(2H)-dione and pyrimidine-2,4,6(1H,3H,5H)-trione derivatives with light-emitting and amplified spontaneous emission properties. , 2020, , .		0
62	Synthesis and Spectroscopic Characteristics of Ligands Based on Quinolin-8-OI as Useful Precursors for Alq3 Type Complexes. <i>Key Engineering Materials</i> , 0, 903, 168-173.	0.4	0