

Karolis Kazlauskas

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110 papers	1,818 citations	25 h-index	34 g-index
118 ext. papers	2,061 ext. citations	4.5 avg, IF	4.65 L-index

#	Paper	IF	Citations
110	Double-scaled potential profile in a group-III nitride alloy revealed by Monte Carlo simulation of exciton hopping. <i>Applied Physics Letters</i> , 2003 , 83, 3722-3724	3.4	74
109	Exciton hopping in In _x Ga _{1-x} N multiple quantum wells. <i>Physical Review B</i> , 2005 , 71,	3.3	71
108	Impact of Linking Topology on the Properties of Carbazole Trimers and Dimers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4887-4897	3.8	68
107	Pyrenyl-Functionalized Fluorene and Carbazole Derivatives as Blue Light Emitters. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7561-7572	3.8	47
106	Impact of intramolecular twisting and exciton migration on emission efficiency of multifunctional fluorene-benzothiadiazole-carbazole compounds. <i>Journal of Chemical Physics</i> , 2011 , 134, 204508	3.9	46
105	Optical bandgap formation in AlInGaN alloys. <i>Applied Physics Letters</i> , 2000 , 77, 2136-2138	3.4	45
104	The Role of Triplet Exciton Diffusion in Light-Upconverting Polymer Glasses. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15732-40	9.5	43
103	Glass-Forming Carbazolyl and Phenothiazinyl Tetra Substituted Pyrene Derivatives: Photophysical, Electrochemical, and Photoelectrical Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15878-15887	3.8	43
102	Impact of Donor Substitution Pattern on the TADF Properties in the Carbazolyl-Substituted Triazine Derivatives. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23618-23625	3.8	42
101	Structure-property relationship of blue solid state emissive phenanthroimidazole derivatives. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16737-16748	3.6	40
100	Non-symmetric 9,10-diphenylanthracene-based deep-blue emitters with enhanced charge transport properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7089-101	3.6	40
99	Concentration effects on emission of bay-substituted perylene diimide derivatives in a polymer matrix. <i>Dyes and Pigments</i> , 2012 , 92, 1285-1291	4.6	39
98	1,2,3-Triazoles as leaving groups in purine chemistry: a three-step synthesis of N6-substituted-2-triazolyl-adenine nucleosides and photophysical properties thereof. <i>Tetrahedron Letters</i> , 2013 , 54, 850-853	2	35
97	Multifunctional red phosphorescent bis-cyclometallated iridium complexes based on 2-phenyl-1,2,3-benzotriazole ligand and carbazolyl moieties. <i>Tetrahedron</i> , 2011 , 67, 1852-1861	2.4	35
96	Glass forming donor-substituted s-triazines: Photophysical and electrochemical properties. <i>Dyes and Pigments</i> , 2013 , 97, 412-422	4.6	34
95	Synthesis and photophysical properties of glass-forming bay-substituted perylenediimide derivatives. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1782-9	3.4	34
94	Triplet-Triplet Annihilation in 9,10-Diphenylanthracene Derivatives: The Role of Intersystem Crossing and Exciton Diffusion. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8515-8524	3.8	32

93	Excitation power dynamics of photoluminescence in InGa _{0.5} N _{0.5} quantum wells with enhanced carrier localization. <i>Journal of Applied Physics</i> , 2005 , 97, 013525	2.5	31
92	Luminescence dynamics in ZnSeTe scintillators. <i>Journal of Luminescence</i> , 2003 , 101, 45-53	3.8	30
91	Suppression of benzophenone-induced triplet quenching for enhanced TADF performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11522-11531	7.1	27
90	Efficient cerium-based sol-gel derived phosphors in different garnet matrices for light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6247-6251	5.7	26
89	Room temperature phosphorescence vs. thermally activated delayed fluorescence in carbazole-pyrimidine cored compounds. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11128-11136	7.1	26
88	Sol-gel synthesis, characterization and application of selected sub-microsized lanthanide (Ce, Pr, Nd, Tb) ferrites. <i>Dyes and Pigments</i> , 2015 , 118, 176-182	4.6	25
87	Phenylethenyl-substituted triphenylamines: efficient, easily obtainable, and inexpensive hole-transporting materials. <i>Chemistry - A European Journal</i> , 2013 , 19, 15044-56	4.8	25
86	Synthesis and photophysical properties of oligoarylenes with a pyrrolo[2,3-d]pyrimidine core. <i>Tetrahedron Letters</i> , 2010 , 51, 3902-3906	2	25
85	Exciton and carrier motion in quaternary AlInGa _{0.5} N _{0.5} . <i>Applied Physics Letters</i> , 2003 , 82, 4501-4503	3.4	25
84	Exciton hopping and nonradiative decay in AlGa _{0.5} N _{0.5} epilayers. <i>Applied Physics Letters</i> , 2005 , 87, 172102	3.4	24
83	Emission wavelength dependence on the rISC rate in TADF compounds with large conformational disorder. <i>Chemical Communications</i> , 2019 , 55, 1975-1978	5.8	23
82	Fluorene- and benzofluorene-cored oligomers as low threshold and high gain amplifying media. <i>Applied Physics Letters</i> , 2015 , 107, 043301	3.4	23
81	Enhancement of triplet-sensitized upconversion in rigid polymers singlet exciton sink approach. <i>Chemical Science</i> , 2018 , 9, 6796-6802	9.4	23
80	Synthesis and optical properties of the isomeric pyrimidine and carbazole derivatives: Effects of polar substituents and linking topology. <i>Dyes and Pigments</i> , 2015 , 118, 118-128	4.6	23
79	Multifunctional polyconjugated molecules with carbazolyl and pyrazolyl moieties for optoelectronic applications. <i>Synthetic Metals</i> , 2010 , 160, 490-498	3.6	23
78	Stimulated emission in AlGa _{0.5} N _{0.5} /AlGa _{0.5} N _{0.5} quantum wells with different Al content. <i>Applied Physics Letters</i> , 2012 , 100, 081902	3.4	23
77	Minimization of solid-state conformational disorder in donor-acceptor TADF compounds. <i>Physical Chemistry Chemical Physics</i> , 2019 , 22, 265-272	3.6	22
76	Achieving Submicrosecond Thermally Activated Delayed Fluorescence Lifetime and Highly Efficient Electroluminescence by Fine-Tuning of the Phenoxazine-Pyrimidine Structure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10727-10736	9.5	22

75	Optical study of the formation of pyrrolo[2,3-d]pyrimidine-based fluorescent nanoaggregates. <i>Tetrahedron</i> , 2013 , 69, 9566-9572	2.4	21
74	Photophysical properties of 2-phenylanthracene and its conformationally-stabilized derivatives. <i>Dyes and Pigments</i> , 2013 , 98, 304-315	4.6	20
73	Impact of t-butyl substitution in a rubrene emitter for solid state NIR-to-visible photon upconversion. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7392-7403	3.6	19
72	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. <i>ACS Photonics</i> , 2018 , 5, 1026-1033	6.3	19
71	Origin of dual emission in bridged donor-acceptor TADF compounds. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12601-12609	7.1	19
70	Low-Threshold Light Amplification in Bifluorene Single Crystals: Role of the Trap States. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2768-2775	9.5	18
69	Stimulated emission due to spatially separated electron-hole plasma and exciton system in homoepitaxial GaN. <i>Physical Review B</i> , 2004 , 69,	3.3	18
68	Morphology and Emission Tuning in Fluorescent Nanoparticles Based on Phenylenediacetonitrile. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25261-25271	3.8	17
67	Nanoparticle-doped electrospun fiber random lasers with spatially extended light modes. <i>Optics Express</i> , 2017 , 25, 24604-24614	3.3	17
66	Dimethyldiphenylamino-substituted carbazoles as electronically active molecular materials. <i>Dyes and Pigments</i> , 2013 , 96, 574-580	4.6	17
65	Understanding the limitations of NIR-to-visible photon upconversion in phthalocyanine-sensitized rubrene systems. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5525-5534	7.1	16
64	Synthesis of 4-aryl-, 2,4-diaryl- and 2,4,7-triarylpyrrolo[2,3-d]pyrimidines by a combination of the Suzuki cross-coupling and N-arylation reactions. <i>Tetrahedron</i> , 2012 , 68, 329-339	2.4	16
63	Pyrazolyl-substituted polyconjugated molecules for optoelectronic applications. <i>Dyes and Pigments</i> , 2010 , 85, 79-85	4.6	16
62	Stimulated emission due to localized and delocalized carriers in Al _{0.35} Ga _{0.65} N/Al _{0.49} Ga _{0.51} N quantum wells. <i>Applied Physics Letters</i> , 2012 , 101, 041912	3.4	15
61	Differently linked fluorene-carbazole triads for light amplification. <i>Dyes and Pigments</i> , 2015 , 123, 370-379	4.6	14
60	Exciton diffusion enhancement in triphenylamines via incorporation of phenylethenyl sidearms. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4792	7.1	14
59	Multicoordinational excited state twisting of indan-1,3-dione derivatives. <i>Chemical Physics</i> , 2008 , 351, 147-153	2.3	13
58	Bifluorene Single Crystals with Extremely Low-Threshold Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2017 , 5, 1600823	8.1	12

57	Concentration effects on spontaneous and amplified emission in benzo[c]fluorenes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12935-48	3.6	12
56	Realization of deep-blue TADF in sterically controlled naphthyridines for vacuum- and solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8560-8566	7.1	12
55	Radiation-defect-dependent photoconductivity transients and photoluminescence in semi-insulating GaN. <i>Applied Physics Letters</i> , 2004 , 84, 5258-5260	3.4	12
54	Achieving efficient deep-blue TADF in carbazole-pyrimidine compounds. <i>Organic Electronics</i> , 2020 , 82, 105723	3.5	12
53	Single-exponential solid-state delayed fluorescence decay in TADF compounds with minimized conformational disorder. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 836-841	7.1	12
52	Impact of non-symmetric 2,9,10-aryl substitution on charge transport and optical properties of anthracene derivatives. <i>Dyes and Pigments</i> , 2015 , 122, 147-159	4.6	10
51	2,4-Bis(4-aryl-1,2,3-triazol-1-yl)pyrrolo[2,3-d]pyrimidines: synthesis and tuning of optical properties by polar substituents. <i>RSC Advances</i> , 2015 , 5, 38610-38622	3.7	10
50	Optimization of the carbazole-pyrimidine linking pattern for achieving efficient TADF. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11192-11200	7.1	10
49	High-triplet-energy carbazole and fluorene tetrads. <i>Journal of Luminescence</i> , 2016 , 169, 256-265	3.8	10
48	TADF Parameters in the Solid State: An Easy Way to Draw Wrong Conclusions. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1637-1641	2.8	10
47	Heterocyclic heptacene analogs BH-16,17-epoxydinaphtho[2,3-c:2',3'-g]carbazoles as charge transport materials. <i>Dyes and Pigments</i> , 2016 , 124, 133-144	4.6	9
46	Localization and Hopping of Excitons in Quaternary AlInGaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 512-515		9
45	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. <i>Advanced Optical Materials</i> , 2020 , 8, 1901670	8.1	9
44	Triplet Exciton Diffusion and Quenching in Matrix-Free Solid Photon Upconversion Films. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3764-3775	3.8	9
43	Exciton diffusion in bifluorene single crystals studied by light induced transient grating technique. <i>Applied Physics Letters</i> , 2018 , 112, 033302	3.4	8
42	Structure-Properties Relationship of Phenylethenyl-Substituted Triphenylamines. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7973-7980	3.8	8
41	Synthesis and properties of hole-transporting triphenylamine-derived dendritic compounds. <i>Dyes and Pigments</i> , 2015 , 115, 135-142	4.6	8
40	Efficiency droop in high-Al-content AlGaIn/AlGaIn quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2130-2132		8

39	Photostability of phenothiazinyl-substituted ethylenes. <i>Dyes and Pigments</i> , 2009 , 83, 168-173	4.6	8
38	Multifunctional emissive material based on 1-phenyl-1,2,3,4-tetrahydroquinoline. <i>Dyes and Pigments</i> , 2009 , 81, 131-136	4.6	8
37	High efficiency and extremely low roll-off solution- and vacuum-processed OLEDs based on isophthalonitrile blue TADF emitter. <i>Chemical Engineering Journal</i> , 2021 , 412, 128574	14.7	8
36	Blue and Deep-Blue-Emitting Organic Lasers with Top-Layer Distributed Feedback Resonators. <i>Advanced Optical Materials</i> , 2020 , 8, 2001153	8.1	7
35	Self-assembled nanoparticles of p-phenylenediacetonitrile derivatives with fluorescence turn-on. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	6
34	Influence of MOVPE growth temperature on the structural and optical properties of InGaN MQW laser diodes. <i>Journal of Crystal Growth</i> , 2008 , 310, 4525-4530	1.6	6
33	Efficient phosphorescent bis-cyclometallated iridium complex based on triazole-quinoline ligand. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 198, 106-110	4.7	6
32	Temperature independent exciton relaxation in poly(di-n-hexylsilane) confined in nanoporous silica. <i>Chemical Physics Letters</i> , 2008 , 465, 261-264	2.5	6
31	Role of band potential roughness on the luminescence properties of InGaN quantum wells grown by MBE on bulk GaN substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 1614-1618	1.3	6
30	NIR-to-vis photon upconversion in rubrenes with increasing structural complexity. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4359-4366	7.1	6
29	Different RISC rates in benzoylpyridine-based TADF compounds and their implications for solution-processed OLEDs. <i>Dyes and Pigments</i> , 2020 , 182, 108579	4.6	5
28	Observation of localization effects in InGaN/GaN quantum structures by means of the application of hydrostatic pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3285-3292	1.3	5
27	Monte Carlo simulation of the exciton hopping in quaternary AlInGaIn. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 2737-2740		5
26	Phenothiazinyl- and 4-diethylaminophenyl-substituted diethylenes as fluorescent and hole-transporting molecular materials. <i>Dyes and Pigments</i> , 2009 , 81, 235-239	4.6	4
25	Study of exciton hopping in AlGaIn epilayers by photoluminescence spectroscopy and Monte Carlo simulation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 2099-2102		4
24	Photoluminescence temperature behavior and Monte Carlo simulation of exciton hopping in InGaIn multiple quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2809-2812		4
23	Tuning of HOMO-LUMO localization for achieving thermally activated delayed fluorescence. <i>Journal of Luminescence</i> , 2022 , 241, 118473	3.8	4
22	Recombination characteristics of the proton and neutron irradiated semi-insulating GaIn structures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 583, 181-184	1.2	3

21	Influence of n-type doping on light emission properties of GaN layers and GaN-based quantum well structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1056-1059		3
20	Role of radiation defects in photoconductivity transients and photoluminescence spectra of epitaxial GaN layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2429-2432		3
19	Carrier localization effect in polarized InGaN multiple quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2753-2756		3
18	Boost in Solid-State Photon Upconversion Efficiency through Combined Approach of Melt-Processing and Purification. <i>Solar Rrl</i> , 2100873	7.1	3
17	Conformational disorder enabled emission phenomena in heavily doped TADF films. <i>Physical Chemistry Chemical Physics</i> , 2021 ,	3.6	2
16	Fluorescence sensing based on phenylenediacetonitrile doped into polymer host. <i>Journal of Luminescence</i> , 2016 , 170, 293-298	3.8	1
15	Optical properties and carrier dynamics in differently strained GaN epilayers grown on Si by MOVPE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1759-1763	1.6	1
14	Profiling of light emission of GaN-based laser diodes with cathodoluminescence. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1811-1814	1.6	1
13	Screening of built-in electric fields in group III-nitride laser diodes observed by means of hydrostatic pressure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1019-1022		1
12	Monte Carlo simulation approach for a quantitative characterization of the band edge in InGaN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1023-1026		1
11	Luminescence of nonthermalized electron-hole plasma in GaN epilayers 2001 ,		1
10	Shaping of the band gap in AlInGaN alloys 2001 ,		1
9	Low efficiency roll-off blue TADF OLEDs employing a novel acridinepyrimidine based high triplet energy host. <i>Journal of Materials Chemistry C</i> ,	7.1	1
8	Application of singlet sink approach for matrix-free amorphous photon upconversion films. <i>Dyes and Pigments</i> , 2021 , 194, 109565	4.6	1
7	Temporal Dynamics of Solid-State Thermally Activated Delayed Fluorescence: Disorder or Ultraslow Solvation?. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1839-1844	6.4	0
6	Photoelectric features of vacuum-deposited a-Si:H/Alq3 blends. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2160-2163	3.9	
5	Micro-analysis of light emission properties of GaN-based laser diodes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 2818-2821		
4	Intrinsic Mechanisms of Stimulated Emission in Homoepitaxial GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 516-519		

- 3 Tuneable optical gain and broadband lasing driven in electrospun polymer fibers by high dye concentration. *Journal of Materials Chemistry C*, **2022**, 10, 2042-2048 7.1
- 2 Photoluminescence and Photoconductivity Dynamics in Semi-Insulating Epitaxial GaN Layers. *Acta Physica Polonica A*, **2005**, 107, 215-219 0.6
- 1 Stimulated Emission from the MBE Grown Homoepitaxial InGaN Based Multiple Quantum Wells Structures. *Acta Physica Polonica A*, **2005**, 107, 225-229 0.6