Lars-Olof PÃ¥lsson

List of Publications by Year
in descending order

67 papers	3,544 citations	136885 32 h-index	133188 59 g-index
69 all docs	69 docs citations	69 times ranked	4682 citing authors

#	Article	IF	Citations
1	Absolute Measurements of Photoluminescence Quantum Yields of Solutions Using an Integrating Sphere. Journal of Fluorescence, 2006, 16, 267-273.	1.3	285
2	Experimental and Theoretical Studies of the Photophysical Properties of 2- and 2,7-Functionalized Pyrene Derivatives. Journal of the American Chemical Society, 2011, 133, 13349-13362.	6.6	284
3	Measurements of Solid-State Photoluminescence Quantum Yields of Films Using a Fluorimeter. Advanced Materials, 2002, 14, 757.	11.1	271
4	The Synthesis and Oneâ€•and Twoâ€Photon Optical Properties of Dipolar, Quadrupolar and Octupolar Donorâ€“Acceptor Molecules Containing Dimesitylboryl Groups. Chemistry - A European Journal, 2009, 15, 198-208.	1.7	196
5	Energy Transfer and Charge Separation in Photosystem I: P700 Oxidation Upon Selective Excitation of the Long-Wavelength Antenna Chlorophylls of Synechococcus elongatus. Biophysical Journal, 1998, 74, 2611-2622.	0.2	170
6	The time domain in co-stained cell imaging: time-resolved emission imaging microscopy using a protonatable luminescent iridium complex. Chemical Communications, 2010, 46, 8743.	2.2	155
7	Protonation and Subsequent Intramolecular Hydrogen Bonding as a Method to Control Chain Structure and Tune Luminescence in Heteroatomic Conjugated Polymers. Journal of the American Chemical Society, 2002, 124, 6049-6055.	6.6	137
8	Intramolecular Charge Transfer Assisted by Conformational Changes in the Excited State of Fluorene-dibenzothiophene-S,S-dioxide Co-oligomers. Journal of Physical Chemistry B, 2006, 110, 19329-19339.	1.2	130
9	Dibenzothiophene-S,S-dioxideâ€“fluorene co-oligomers. Stable, highly-efficient blue emitters with improved electron affinity. Chemical Communications, 2005, , 3397.	2.2	118
10	Investigations of excitation energy transfer and intramolecular interactions in a nitrogen corded distrylbenzene dendrimer system. Journal of Chemical Physics, 2002, 116, 8893-8903.	1.2	111
11	Molecular Wires Comprising Ï€-Extended Ethynyl- and Butadiynyl-2,5-Diphenyl-1,3,4-Oxadiazole Derivatives:Â Synthesis, Redox, Structural, and Optoelectronic Properties. Journal of the American Chemical Society, 2006, 128, 3789-3799.	6.6	104
12	Polarized site-selective fluorescence spectroscopy of the long-wavelength emitting chlorophylls in isolated Photosystem I particles of Synechococcus elongatus. Photosynthesis Research, 1996, 48, 239-246.	1.6	100
13	Two-photon absorption and photoluminescence of europium based emissive probes for bioactive systems. Dalton Transactions, 2007, , 5726.	1.6	84
14	Syntheses, structures, two-photon absorption cross-sections and computed second hyperpolarisabilities of quadrupolar Aâ€“Ï€â€“A systems containing E-dimesitylborylethenyl acceptors. Journal of Materials Chemistry, 2009, 19, 7532.	6.7	81
15	Colour tuning of blue electroluminescence using bipolar carbazoleâ€“oxadiazole molecules in single-active-layer organic light emitting devices (OLEDs). Journal of Materials Chemistry, 2012, 22, 11816.	6.7	79
16	3â€Hydroxypyridinâ€2â€one Complexes of Nearâ€Infrared (NIR) Emitting Lanthanides: Sensitization of Holmium(III) and Praseodymium(III) in Aqueous Solution. Angewandte Chemie - International Edition, 2008, 47, 9500-9503.	7.2	75
17	Fluorescence and Absorption Spectroscopy of the Weakly Fluorescent Chlorophyll a in Cytochrome b6f of Synechocystis PCC6803. Biophysical Journal, 1998, 75, 389-398.	0.2	73
18	Ultrafast chlorophyllb-chlorophyllaexcitation energy transfer in the isolated light harvesting complex, LHC II, of green plants. FEBS Letters, 1994, 339, 134-138.	1.3	54

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19	X-ray Diffraction Studies of Multiple Orientation in Poly(9,9-bis(2-ethylhexyl)fluorene-2,7-diyl) Thin Films. Journal of Physical Chemistry B, 2003, 107, 12425-12430.	1.2	49
20	Efficient Intramolecular Charge Transfer in Oligoyneâ€Linked Donorâ€"Ï€â€"Acceptor Molecules. Chemistry - A European Journal, 2010, 16, 1470-1479.	1.7	49
21	Rapid time-resolved Circular Polarization Luminescence (CPL) emission spectroscopy. Nature Communications, 2020, 11, 1676.	5.8	48
22	The solid-state photoluminescent quantum yield of triboluminescent materials. Chemical Physics Letters, 2001, 336, 234-241.	1.2	45
23	The intracellular immune receptor Rx1 regulates the DNA-binding activity of a Golden2-like transcription factor. Journal of Biological Chemistry, 2018, 293, 3218-3233.	1.6	44
24	Polarized luminescence from self-assembled, aligned, and cleaved supramolecules of highly ordered rodlike polymers. Applied Physics Letters, 2002, 81, 1489-1491.	1.5	40
25	Rapid isolation of photosystem I chlorophyll-binding proteins by anion exchange perfusion chromatography. Photosynthesis Research, 1995, 45, 41-49.	1.6	39
26	Induced circularly polarized luminescence arising from anion or protein binding to racemic emissive lanthanide complexes. Methods and Applications in Fluorescence, 2014, 2, 024007.	1.1	38
27	A tight tunable range for Ni(II) sensing and buffering in cells. Nature Chemical Biology, 2017, 13, 409-414.	3.9	37
28	The Potato Nucleotide-binding Leucine-rich Repeat (NLR) Immune Receptor Rx1 Is a Pathogen-dependent DNA-deforming Protein. Journal of Biological Chemistry, 2015, 290, 24945-24960.	1.6	36
29	Matrix dependence of light emission from TCNQ adducts. Journal of Materials Chemistry, 2001, 11, 3053-3062.	6.7	35
30	Synthesis and Excited State Spectroscopy of Tris(distyrylbenzenyl)amine-cored Electroluminescent Dendrimers. Macromolecules, 2002, 35, 7891-7901.	2.2	35
31	Influence of Molecular Weight on Self-Organization, Uniaxial Alignment, and Surface Morphology of Hairy-Rodlike Polyfluorene in Thin Films. Journal of Physical Chemistry B, 2004, 108, 10711-10720.	1.2	33
32	Direct Conjugation of Semiconductor Nanocrystals to a Globular Protein to Study Protein-Folding Intermediates. Journal of Physical Chemistry B, 2007, 111, 12294-12298.	1.2	33
33	Oligo(pâ€phenyleneethynylene) (OPE) Molecular Wires: Synthesis and Length Dependence of Photoinduced Charge Transfer in OPEs with Triarylamine and Diaryloxadiazole End Groups. Chemistry - A European Journal, 2015, 21, 3997-4007.	1.7	33
34	Chiral probe development for circularly polarised luminescence: comparative study of structural factors determining the degree of induced CPL with four heptacoordinate europium(<scp>iii</scp>) complexes. Dalton Transactions, 2015, 44, 14937-14951.	1.6	33
35	Energy transfer in photosystem I. Time resolved fluorescence of the native photosystem I complex and its core complex. Chemical Physics, 1995, 194, 291-302.	0.9	31
36	Photophysics of a fluorene co-polymer in solution and films. Chemical Physics, 2002, 279, 229-237.	0.9	30

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37	Regiospecific Formation and Unusual Optical Properties of 2,5â€Bis(arylethynyl)rhodacyclopentadienes: A New Class of Luminescent Organometallics. Chemistry - A European Journal, 2014, 20, 3652-3666.	1.7	28
38	Ultrafast energy transfer dynamics resolved in isolated spinach light-harvesting complex I and the LHC I-730 subpopulation. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1230, 1-9.	0.5	27
39	Singlet and triplet energy transfer in a benzil-doped, light emitting, solid-state conjugated polymer. Chemical Physics, 2002, 285, 95-101.	0.9	27
40	Control of polymerâ€“electrode interactions: the effect of leaving group on the optical properties and device characteristics of EHPPV. Journal of Materials Chemistry, 2001, 11, 2228-2231.	6.7	26
41	Liposome-doped hydrogel for implantable tissue. Soft Matter, 2011, 7, 7071.	1.2	23
42	TADF Dye-Loaded Nanoparticles for Fluorescence Live-Cell Imaging. Frontiers in Chemistry, 2020, 8, 404.	1.8	20
43	Synthesis and characterization of lanthanide complexes of DO3A-alkylphosphonates. Dalton Transactions, 2007, , 5260.	1.6	19
44	Responsive microsecond-lifetime photoluminescent probes for analysis of protein kinases and their inhibitors. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1330-1335.	1.1	19
45	The Tomato Nucleotide-binding Leucine-rich Repeat Immune Receptor I-2 Couples DNA-binding to Nucleotide-binding Domain Nucleotide Exchange. Journal of Biological Chemistry, 2016, 291, 1137-1147.	1.6	17
46	Local field and aggregation dependence of the micro- and macroscopic optical non-linearity of zwitterionic molecules. Optical Materials, 2003, 21, 29-37.	1.7	16
47	Polarized optical spectroscopy applied to investigate two poly(phenylene-vinylene) polymers with different side chain structures. Journal of Chemical Physics, 2006, 125, 164701.	1.2	15
48	ORIENTATION AND SOLVATOCHROMISM OF DYES IN LIQUID CRYSTALS. Molecular Crystals and Liquid Crystals, 2003, 402, 43-53.	0.4	13
49	Guestâ€“host interactions between dichroic dyes and anisotropic hosts. Journal of Luminescence, 2006, 117, 113-122.	1.5	12
50	Pressure dependent radiative quantum yields of the prompt and delayed luminescence of polyfluorene films. Chemical Physics Letters, 2002, 360, 111-116.	1.2	10
51	Diffraction analysis of highly ordered smectic supramolecules of conjugated rodlike polymers. Journal of Applied Crystallography, 2003, 36, 702-707.	1.9	9
52	Ultrafast Dynamics and Computational Studies on Diaminodicyanoquinodimethanes (DADQs). Journal of Physical Chemistry B, 2014, 118, 6815-6828.	1.2	9
53	Time-resolved PL studies of partially conjugated MEH-PPV control of excimer emission. Synthetic Metals, 2001, 119, 575-576.	2.1	8
54	Almost complete radiationless energy transfer from excited triplet state of a dim phosphor to a covalently linked adjacent fluorescent dye in purely organic tandem luminophores doped into PVA matrix. Journal of Materials Chemistry C, 2019, 7, 6571-6577.	2.7	8

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55	Matrix dependence of blue light emission from a novel NH2-functionalized dicyanoquinodimethane derivative. Journal of Physical Organic Chemistry, 2006, 19, 206-213.	0.9	7
56	On the angular dependence of the optical polarization anisotropy in ladder-type polymers. Journal of Chemical Physics, 2008, 128, 044709.	1.2	5
57	Synthesis, Excited State Dynamics, and Optical Characteristics of Oligophenyl-Based Swivel Cruciforms in Solution and Solid State. Journal of Physical Chemistry B, 2010, 114, 12765-12776.	1.2	5
58	In Vitro and in Cellulo Sensing of Transition Metals Using Time-Resolved Fluorescence Spectroscopy and Microscopy. Journal of Fluorescence, 2019, 29, 255-263.	1.3	4
59	Applying TADF Emitters in Bioimaging and Sensingâ€"A Novel Approach Using Liposomes for Encapsulation and Cellular Uptake. Frontiers in Chemistry, 2021, 9, 743928.	1.8	4
60	Fluorene co-polymer luminescence: implications for molecular interactions. Synthetic Metals, 2001, 119, 627-628.	2.1	3
61	A bacteriophage mimic of the bacterial nucleoid-associated protein Fis. Biochemical Journal, 2020, 477, 1345-1362.	1.7	2
62	Self-assembled, aligned, and cleaved supramolecules of poly(2,5-pyridinediyl). Materials Research Society Symposia Proceedings, 2002, 725, 1.	0.1	1
63	Polymeric Alkoxy PBD [2-(4-Biphenylyl)-5-Phenyl-1,3,4-Oxadiazole] for Light-Emitting Diodes. Advanced Functional Materials, 2001, 11, 47-50.	7.8	1
64	Modulated Fluorescence in LB Films Based on DADQsâ€"A Potential Sensing Surface?. Molecules, 2022, 27, 3893.	1.7	1
65	Femtosecond excitation transfer processes in biliprotein trimers. , 1993, 1921, 136.		0
66	Chlorophyll b to chlorophyll a energy transfer in the isolated light-harvesting complex II, LHC II, of green plants. , 1993, , .		0
67	Perfusion Chromatography as a Means for Very Quick Isolation of the Photosystem I Core Complex and Light-Harvesting I Subcomplexes. , 1995, , 1081-1084.		0