Lewis J Rothberg

List of Publications by Year
in descending order

51 papers	3,310 citations	361045 20 h-index	264894 42 g-index
52 all docs	52 docs citations	52 times ranked	4057 citing authors

#	Article	IF	Citations
1	Low Onset Stimulated Emission in Electrically Pumped Organic Light-Emitting Diodes. ACS Photonics, 2022, 9, 511-517.	3.2	4
2	Reduction of non-specific adsorption in label-free assays via reversible surface blocking with amphiphilic sugars. Sensors and Actuators B: Chemical, 2022, 360, 131657.	4.0	1
3	Label-Free Immunoassay Using Droplet-Based Brewsterâ€™s Angle Straddle Interferometry. Analytical Chemistry, 2021, 93, 4456-4462.	3.2	4
4	Complications in the Interpretation of F8T2 Spectra in Terms of Morphology. Journal of Physical Chemistry B, 2021, 125, 5660-5666.	1.2	3
5	Noncrystallizable Chargeâ€Transporting Hosts for Phosphorescent Organic Light Emitting Diodes: Decreased Emitter Aggregation. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900713.	1.2	0
6	Role of Spin-Coupled Polaron Pairs in the Recombination of Charges in Electroluminescent Conjugated Polymers. Journal of Physical Chemistry C, 2018, 122, 7013-7019.	1.5	0
7	Rigidity and Polarity Effects on the Electronic Properties of Two Deep Blue Delayed Fluorescence Emitters. Journal of Physical Chemistry C, 2018, 122, 11961-11972.	1.5	13
8	P-207: Late-News Poster: Efficient Emitter Aggregation Management Using High-Entropy Non-crystallizable Hosts. Digest of Technical Papers SID International Symposium, 2018, 49, 1862-1864.	0.1	1
9	Improved fluorescence yields through selective photooxidation of conjugated polymer chromophores. Journal of Photonics for Energy, 2018, 8, 1.	0.8	3
10	Role of Aggregates in the Luminescence Decay Dynamics of Conjugated Polymers. Journal of Physical Chemistry A, 2016, 120, 551-555.	1.1	11
11	Permanent polarization and charge distribution in organic light-emitting diodes (OLEDs): Insights from near-infrared charge-modulation spectroscopy of an operating OLED. Journal of Applied Physics, 2014, 115, .	1.1	19
12	Effects of emitting layer host composition profile on the recombination zone of blue phosphorescent organic light emitting diodes. Journal of the Society for Information Display, 2013, 21, 55-59.	0.8	0
13	Evaluation of propylene-, meta-, and para-linked triazine and tert-butyltriphenylamine as bipolar hosts for phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 2224.	2.7	33
14	Effects of mixed host spatial distribution on the efficiency of blue phosphorescent organic light-emitting diodes. Applied Physics Letters, 2012, 101, 043303.	1.5	12
15	33.3: Distinguished Student Paper: Improved Blue Phosphorescent OLEDs with a Linearlyâ€Graded Mixed Host Architecture. Digest of Technical Papers SID International Symposium, 2012, 43, 441-444.	0.1	0
16	Kinetics and Mechanism of Single-Stranded DNA Adsorption onto Citrate-Stabilized Gold Nanoparticles in Colloidal Solution. Langmuir, 2011, 27, 1770-1777.	1.6	120
17	Watching polymers dance. Nature Chemistry, 2011, 3, 425-426.	6.6	6
18	23.1: Invited Paper: Luminescence Quenching by Charge Carriers in Organic Lightâ€Emitting Diodes. Digest of Technical Papers SID International Symposium, 2009, 40, 306-309.	0.1	1

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19	Regulation of electronic behavior via confinement of PPV-based oligomers on peptide scaffolds. Journal of Materials Chemistry, 2008, 18, 3847.	6.7	20
20	Plasmon enhancement of bulk heterojunction organic photovoltaic devices by electrode modification. Applied Physics Letters, 2008, 93, 123302.	1.5	73
21	WangetÂal.Reply:. Physical Review Letters, 2007, 98, .	2.9	11
22	Selective quenching of fluorescence from unbound oligonucleotides by gold nanoparticles as a probe of RNA structure. Rna, 2007, 13, 2034-2041.	1.6	18
23	Structure and Dynamics of Single Conjugated Polymer Chromophores by Surface-Enhanced Raman Spectroscopy. ACS Nano, 2007, 1, 299-306.	7.3	17
24	Label-Free Sensing of Binding to Microarrays Using Brewster Angle Straddle Interferometry. Analytical Chemistry, 2007, 79, 7589-7595.	3.2	29
25	Conformational Reorganization and Solvation Dynamics of Dendritic Oligothiophenes. Journal of Physical Chemistry B, 2007, 111, 13211-13216.	1.2	10
26	Assays Based on Differential Adsorption of Single-stranded and Double-stranded DNA on Unfunctionalized Gold Nanoparticles in a Colloidal Suspension. Plasmonics, 2007, 2, 165-171.	1.8	18
27	Synthesis, Optical, and Electrochemical Properties of a New Family of Dendritic Oligothiophenes. Journal of Organic Chemistry, 2006, 71, 9475-9483.	1.7	26
28	Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. Journal of Materials Chemistry, 2006, 16, 3721.	6.7	38
29	Determination of the Exciton Binding Energy in Single-Walled Carbon Nanotubes. Physical Review Letters, 2006, 96, 047403.	2.9	52
30	Enhancement of Adsorbed Dye Monolayer Fluorescence by a Silver Nanoparticle Overlayer. Journal of Physical Chemistry B, 2006, 110, 17383-17387.	1.2	77
31	Conformations of single chains of conjugated polymers by plasmon-enhanced Raman scattering. , 2006, 6323, 200.		0
32	Single Carbon Nanotube Photonics and the Role of Excitons. , 2006, , .		0
33	Effects of Local Plasmon Resonance Inhomogeneity on Surface Enhanced Molecular Fluorescence. , 2006, , .		0
34	Detection of Specific Sequences in RNA Using Differential Adsorption of Single-Stranded Oligonucleotides on Gold Nanoparticles. Analytical Chemistry, 2005, 77, 6229-6233.	3.2	89
35	Photoluminescent Enhancement of Ruthenium Complex Monolayers by Surface Plasmon Resonance of Silver Nanoparticles. Materials Research Society Symposia Proceedings, 2004, 818, 256.	0.1	3
36	Label-Free Colorimetric Detection of Specific Sequences in Genomic DNA Amplified by the Polymerase Chain Reaction. Journal of the American Chemical Society, 2004, 126, 10958-10961.	6.6	635

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37	Exciton dissociation in conjugated polymers. Macromolecular Symposia, 2004, 212, 13-24.	0.4	19
38	Structural basis for the spectroscopy and photophysics of solution-aggregated conjugated polymers. Synthetic Metals, 2004, 141, 197-202.	2.1	51
39	DNA Sequence Detection Using Selective Fluorescence Quenching of Tagged Oligonucleotide Probes by Gold Nanoparticles. Analytical Chemistry, 2004, 76, 5414-5417.	3.2	260
40	Interferometric Sensing of Biomolecular Binding Using Nanoporous Aluminum Oxide Templates. Nano Letters, 2003, 3, 811-814.	4.5	69
41	The structural basis for giant enhancement enabling single-molecule Raman scattering. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8638-8643.	3.3	209
42	Fully Spiro-Configured Terfluorenes as Novel Amorphous Materials Emitting Blue Light. Chemistry of Materials, 2002, 14, 463-470.	3.2	75
43	Conformational Effects on the Photophysics of Conjugated Polymers:Â A Two Species Model for MEHâ^'PPV Spectroscopy and Dynamics. Macromolecules, 2001, 34, 2346-2352.	2.2	242
44	Photoluminescence decay dynamics of dendritically substituted conjugated polymers. Synthetic Metals, 2001, 116, 41-44.	2.1	20
45	Nanoscale silicon microcavities for biosensing. Materials Science and Engineering C, 2001, 15, 277-282.	3.8	125
46	Dendritic sidegroups as three-dimensional barriers to aggregation quenching of conjugated polymer fluorescence. Synthetic Metals, 2000, 114, 61-64.	2.1	138
47	Description and importance of interchain excited states in conjugated polymer photophysics. Israel Journal of Chemistry, 2000, 40, 153-157.	1.0	5
48	ENGINEERING OF SIDEGROUPS TO ENHANCE LUMINESCENCE EFFICIENCY OF CONJUGATED POLYMERS. , 2000, , .		0
49	Aggregation Quenching of Luminescence in Electroluminescent Conjugated Polymers. Journal of Physical Chemistry A, 1999, 103, 2394-2398.	1.1	358
50	Resonant Cavity Electroluminescent Backlights. Digest of Technical Papers SID International Symposium, 1998, 29, 231.	0.1	0
51	Status of and prospects for organic electroluminescence. Journal of Materials Research, 1996, 11, 3174-3187.	1.2	390