

Lewis J Rothberg

List of Publications by Year in descending order

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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	Label-Free Colorimetric Detection of Specific Sequences in Genomic DNA Amplified by the Polymerase Chain Reaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 10958-10961.	6.6	635
2	Status of and prospects for organic electroluminescence. <i>Journal of Materials Research</i> , 1996, 11, 3174-3187.	1.2	390
3	Aggregation Quenching of Luminescence in Electroluminescent Conjugated Polymers. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2394-2398.	1.1	358
4	DNA Sequence Detection Using Selective Fluorescence Quenching of Tagged Oligonucleotide Probes by Gold Nanoparticles. <i>Analytical Chemistry</i> , 2004, 76, 5414-5417.	3.2	260
5	Conformational Effects on the Photophysics of Conjugated Polymers: A Two Species Model for MEH-PPV Spectroscopy and Dynamics. <i>Macromolecules</i> , 2001, 34, 2346-2352.	2.2	242
6	The structural basis for giant enhancement enabling single-molecule Raman scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8638-8643.	3.3	209
7	Dendritic sidegroups as three-dimensional barriers to aggregation quenching of conjugated polymer fluorescence. <i>Synthetic Metals</i> , 2000, 114, 61-64.	2.1	138
8	Nanoscale silicon microcavities for biosensing. <i>Materials Science and Engineering C</i> , 2001, 15, 277-282.	3.8	125
9	Kinetics and Mechanism of Single-Stranded DNA Adsorption onto Citrate-Stabilized Gold Nanoparticles in Colloidal Solution. <i>Langmuir</i> , 2011, 27, 1770-1777.	1.6	120
10	Detection of Specific Sequences in RNA Using Differential Adsorption of Single-Stranded Oligonucleotides on Gold Nanoparticles. <i>Analytical Chemistry</i> , 2005, 77, 6229-6233.	3.2	89
11	Enhancement of Adsorbed Dye Monolayer Fluorescence by a Silver Nanoparticle Overlayer. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17383-17387.	1.2	77
12	Fully Spiro-Configured Terfluorenes as Novel Amorphous Materials Emitting Blue Light. <i>Chemistry of Materials</i> , 2002, 14, 463-470.	3.2	75
13	Plasmon enhancement of bulk heterojunction organic photovoltaic devices by electrode modification. <i>Applied Physics Letters</i> , 2008, 93, 123302.	1.5	73
14	Interferometric Sensing of Biomolecular Binding Using Nanoporous Aluminum Oxide Templates. <i>Nano Letters</i> , 2003, 3, 811-814.	4.5	69
15	Determination of the Exciton Binding Energy in Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 96, 047403.	2.9	52
16	Structural basis for the spectroscopy and photophysics of solution-aggregated conjugated polymers. <i>Synthetic Metals</i> , 2004, 141, 197-202.	2.1	51
17	Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. <i>Journal of Materials Chemistry</i> , 2006, 16, 3721.	6.7	38
18	Evaluation of propylene-, meta-, and para-linked triazine and tert-butyltriphenylamine as bipolar hosts for phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2224.	2.7	33

#	ARTICLE	IF	CITATIONS
19	Label-Free Sensing of Binding to Microarrays Using Brewster Angle Straddle Interferometry. <i>Analytical Chemistry</i> , 2007, 79, 7589-7595.	3.2	29
20	Synthesis, Optical, and Electrochemical Properties of a New Family of Dendritic Oligothiophenes. <i>Journal of Organic Chemistry</i> , 2006, 71, 9475-9483.	1.7	26
21	Photoluminescence decay dynamics of dendritically substituted conjugated polymers. <i>Synthetic Metals</i> , 2001, 116, 41-44.	2.1	20
22	Regulation of electronic behavior via confinement of PPV-based oligomers on peptide scaffolds. <i>Journal of Materials Chemistry</i> , 2008, 18, 3847.	6.7	20
23	Exciton dissociation in conjugated polymers. <i>Macromolecular Symposia</i> , 2004, 212, 13-24.	0.4	19
24	Permanent polarization and charge distribution in organic light-emitting diodes (OLEDs): Insights from near-infrared charge-modulation spectroscopy of an operating OLED. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	19
25	Selective quenching of fluorescence from unbound oligonucleotides by gold nanoparticles as a probe of RNA structure. <i>Rna</i> , 2007, 13, 2034-2041.	1.6	18
26	Assays Based on Differential Adsorption of Single-stranded and Double-stranded DNA on Unfunctionalized Gold Nanoparticles in a Colloidal Suspension. <i>Plasmonics</i> , 2007, 2, 165-171.	1.8	18
27	Structure and Dynamics of Single Conjugated Polymer Chromophores by Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2007, 1, 299-306.	7.3	17
28	Rigidity and Polarity Effects on the Electronic Properties of Two Deep Blue Delayed Fluorescence Emitters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11961-11972.	1.5	13
29	Effects of mixed host spatial distribution on the efficiency of blue phosphorescent organic light-emitting diodes. <i>Applied Physics Letters</i> , 2012, 101, 043303.	1.5	12
30	WangetÂal.Reply:. <i>Physical Review Letters</i> , 2007, 98, .	2.9	11
31	Role of Aggregates in the Luminescence Decay Dynamics of Conjugated Polymers. <i>Journal of Physical Chemistry A</i> , 2016, 120, 551-555.	1.1	11
32	Conformational Reorganization and Solvation Dynamics of Dendritic Oligothiophenes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13211-13216.	1.2	10
33	Watching polymers dance. <i>Nature Chemistry</i> , 2011, 3, 425-426.	6.6	6
34	Description and importance of interchain excited states in conjugated polymer photophysics. <i>Israel Journal of Chemistry</i> , 2000, 40, 153-157.	1.0	5
35	Label-Free Immunoassay Using Droplet-Based Brewster's Angle Straddle Interferometry. <i>Analytical Chemistry</i> , 2021, 93, 4456-4462.	3.2	4
36	Low Onset Stimulated Emission in Electrically Pumped Organic Light-Emitting Diodes. <i>ACS Photonics</i> , 2022, 9, 511-517.	3.2	4

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37	Photoluminescent Enhancement of Ruthenium Complex Monolayers by Surface Plasmon Resonance of Silver Nanoparticles. Materials Research Society Symposia Proceedings, 2004, 818, 256.	0.1	3
38	Complications in the Interpretation of F8T2 Spectra in Terms of Morphology. Journal of Physical Chemistry B, 2021, 125, 5660-5666.	1.2	3
39	Improved fluorescence yields through selective photooxidation of conjugated polymer chromophores. Journal of Photonics for Energy, 2018, 8, 1.	0.8	3
40	23.1: <i>Invited Paper</i> : Luminescence Quenching by Charge Carriers in Organic Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2009, 40, 306-309.	0.1	1
41	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
42	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
43	Resonant Cavity Electroluminescent Backlights. Digest of Technical Papers SID International Symposium, 1998, 29, 231.	0.1	0
44	Conformations of single chains of conjugated polymers by plasmon-enhanced Raman scattering. , 2006, 6323, 200.		0
45	33.3: <i>Distinguished Student Paper</i> : Improved Blue Phosphorescent OLEDs with a Linearly-Graded Mixed Host Architecture. Digest of Technical Papers SID International Symposium, 2012, 43, 441-444.	0.1	0
46	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
47	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
48	Noncrystallizable Charge-Transporting Hosts for Phosphorescent Organic Light Emitting Diodes: Decreased Emitter Aggregation. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900713.	1.2	0
49	ENGINEERING OF SIDEGROUPS TO ENHANCE LUMINESCENCE EFFICIENCY OF CONJUGATED POLYMERS. , 2000, , .		0
50	Single Carbon Nanotube Photonics and the Role of Excitons. , 2006, , .		0
51	Effects of Local Plasmon Resonance Inhomogeneity on Surface Enhanced Molecular Fluorescence. , 2006, , .		0