Paul M Lahti

List of Publications by Year
in descending order

103 papers	2,209 citations	257429 24 h-index	276858 41 g-index
103 all docs	103 docs citations	103 times ranked	2828 citing authors

#	Article	IF	Citations
1	Enhanced thermoelectric properties of <scp>PEDOT</scp> : <scp>PSS</scp> composites by functionalized single wall carbon nanotubes. International Journal of Energy Research, 2020, 44, 9149-9156.	4.5	12
2	Tuning N,N-Diarylanilinosquaraine Crystal Packing: n-Hexylaryl and Fluoroaryl Substitution. Crystal Growth and Design, 2019, 19, 3633-3638.	3.0	0
3	Designing conjugation-extended viologens for high molar absorptivity with longer wavelength absorption. Synthetic Metals, 2019, 254, 75-84.	3.9	8
4	Solution-fabrication dependent thermoelectric behavior of iodine-doped regioregular and regiorandom P3HT/carbon nanotube composites. Synthetic Metals, 2018, 239, 51-58.	3.9	20
5	Amino-fulleropyrrolidines as electrotropic additives to enhance organic photovoltaics. Sustainable Energy and Fuels, 2018, 2, 2143-2147.	4.9	9
6	Thermoelectric Enhancement by Compositing Carbon Nanotubes into Iodine-Doped Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene]. ACS Applied Materials & Interfaces, 2017, 9, 8975-8984.	8.0	18
7	Evaluating Electron Paramagnetic Resonance (EPR) to Measure Lipid Oxidation Lag Phase for Shelfâ€Life Determination of Oils. JAOCS, Journal of the American Oil Chemists' Society, 2017, 94, 89-97.	1.9	19
8	Observation of Tunneling-Assisted Highly Forbidden Single-Photon Transitions in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Single-Molecule Magnet. Physical Review Letters, 2016, 117, 187202.	7.8	10
9	Rigid Core Anthracene and Anthraquinone Linked Nitronyl and Iminoyl Nitroxide Biradicals. Crystal Growth and Design, 2016, 16, 4051-4059.	3.0	10
10	Tunable Percolation in Semiconducting Binary Polymer Nanoparticle Glasses. Journal of Physical Chemistry B, 2016, 120, 2544-2556.	2.6	3
11	Poly((2-alkylbenzo[1,2,3]triazole-4,7-diyl)vinylene)s for organic solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1539-1545.	2.1	5
12	Carpenterâ€™s Rule Folding in Rigidâ€“Flexible Block Copolymers with Conjugation-Interrupting, Flexible Tethers Between Oligophenylenevinylenes. Journal of Physical Chemistry A, 2015, 119, 8010-8020.	2.5	11
13	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. Journal of the American Chemical Society, 2015, 137, 13130-13137.	13.7	394
14	A Single-Chain Magnet with a Very High Blocking Temperature and a Strong Coercive Field. Inorganic Chemistry, 2015, 54, 9381-9383.	4.0	65
15	Effect of Substituents on Optical Properties and Charge-Carrier Polarity of Squaraine Dyes. Journal of Physical Chemistry C, 2014, 118, 1793-1799.	3.1	20
16	Fabrication conditions for efficient organic photovoltaic cells from aqueous dispersions of nanoparticles. RSC Advances, 2014, 4, 45325-45331.	3.6	48
17	Organizing a bis(iminoylnitroxide) diradical into antiferromagnetically coupled chains by co-crystallization with dichloromethane. CrystEngComm, 2014, 16, 5832.	2.6	2
18	Crystallinity and Morphology Effects on a Solvent-Processed Solar Cell Using a Triarylamine-Substituted Squaraine. ACS Applied Materials & Interfaces, 2014, 6, 11376-11384.	8.0	17

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19	Pushâ€“pull triarylamine additives that enhance dye sensitized solar cell performance. RSC Advances, 2013, 3, 15626.	3.6	6
20	Determining the Critical Particle Size to Induce Enhanced Emission in Aggregates of a Highly Twisted Triarylamine. ChemPhysChem, 2013, 14, 3682-3686.	2.1	5
21	A co-crystal of 2-(1â€²-pyrenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyl with octafluoronaphthalene. CrystEngComm, 2013, 15, 831-835.	2.6	8
22	Thermoelectric studies of oligophenylenevinylene segmented block copolymers and their blends with MEH-PPV. Synthetic Metals, 2013, 185-186, 109-114.	3.9	20
23	Radical cations from diarylamino-substituted fluorenones. Tetrahedron Letters, 2013, 54, 35-39.	1.4	5
24	Two co-crystalline M(hfac)2(IPhIN)2Â·M(hfac)2 (M = Mn, Co) compounds with a bis(iminoylnitroxide) biradical: structure and magnetism. New Journal of Chemistry, 2013, 37, 1927.	2.8	7
25	Crystal Packing and Magnetism in Phenolic Nitronylnitroxides: 2-(3â€²,5â€²-Dimethoxy-4â€²-hydroxyphenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-1-oxyl. Crystal Growth and Design, 2013, 13, 893-900.	3.0	6
26	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¼</mml:mi></mml:math>SR study of magnetic order in the organic quasi-one-dimensional ferromagnet F4BImNN. Physical Review B, 2013, 88, .	3.2	21
27	Charge Transport: Efficient Charge Transport in Assemblies of Surfactant-Stabilized Semiconducting Nanoparticles (Adv. Mater. 44/2013). Advanced Materials, 2013, 25, 6410-6410.	21.0	0
28	Radicals organized by disk shaped aromatics â€“ polymorphism and co-crystals that tune inter-electron exchange. CrystEngComm, 2012, 14, 1515-1526.	2.6	20
29	Two Cobalt(II) Cubane Compounds: The Key Role of Small Ligand Changes on the Crystal Packing and Magnetic Properties. European Journal of Inorganic Chemistry, 2012, 2012, 5642-5648.	2.0	25
30	Modular electron donor group tuning of frontier energy levels in diarylaminofluorenone pushâ€“pull molecules. Physical Chemistry Chemical Physics, 2012, 14, 11961.	2.8	26
31	Highly Twisted Triarylamines for Photoinduced Intramolecular Charge Transfer. Journal of Physical Chemistry A, 2011, 115, 8361-8368.	2.5	20
32	Aminophenylnitronylnitroxides: Highly Networked Hydrogen-Bond Assembly in Organic Radical Materials. Chemistry of Materials, 2011, 23, 4844-4856.	6.7	9
33	Loops, Chains, Sheets, and Networks from Variable Coordination of Cu(hfac)₂ with a Flexibly Hinged Aminoxyl Radical Ligand. Inorganic Chemistry, 2011, 50, 5060-5074.	4.0	22
34	Pressure Effects on the Quasi-1-D Molecular Ferromagnet 2-(4,5,6,7-Tetrafluorobenzimidazol-2-yl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyl. Crystal Growth and Design, 2011, 11, 4261-4266.	3.0	10
35	High-Spin Nitrene Fine-Structure ESR Spectroscopy in Frozen Rigid Glasses: Exact Analytical Expressions for the Canonical Peaks and A D-Tensor Gradient Method for Line Broadening. Applied Magnetic Resonance, 2010, 37, 703-736.	1.2	29
36	Aminoâ€Substituted paraâ€Phenylenevinylenes (PPVs) as Platforms for Fluorescent Sensing Materials. Macromolecular Symposia, 2010, 297, 94-100.	0.7	3

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37	Isostructural M(RL)2(hfac)2 complexes with RL=5-(4-[N-tert-butyl-N-aminoxyl]phenyl)pyrimidine. Inorganica Chimica Acta, 2008, 361, 3697-3709.	2.4	7
38	2-(4,5,6,7-Tetrafluorobenzimidazol-2-yl)-4,4,5,5-tetramethyl-4,5-dihydro-1-H-imidazole-3-oxide-1-oxyl, A Hydrogen-Bonded Organic Quasi-1D Ferromagnet. Journal of the American Chemical Society, 2008, 130, 186-194.	13.7	34
39	Magnetostructural Study of 2-(4-N-tert-Butylaminoxylphenyl)benzimidazole. Journal of Physical Chemistry B, 2008, 112, 8144-8150.	2.6	7
40	Luminescence of fluorenes 2,7-conjugatively extended with pyrenylvinylene and pyrenylvinylene-phenylenevinylene. Journal of Materials Chemistry, 2007, 17, 3030.	6.7	9
41	Synthesis and Oxidation of Triarylamine Derivatives Bearing Hydrogen-Bonding Groups. Journal of Organic Chemistry, 2007, 72, 4974-4977.	3.2	20
42	Crystallography and magnetism of 2-amido-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyls. Polyhedron, 2007, 26, 1959-1964.	2.2	1
43	Crystallography and magnetism of 1-(4-[N-tert-butylaminoxyl]-2,3,5,6-tetrafluorophenyl)pyrrole. Polyhedron, 2007, 26, 2031-2036.	2.2	2
44	A water-solubilized, segmented, alternating block copolymer of a 1,4-bis-styrylbenzene with polyethylene glycol. Polymer, 2007, 48, 5514-5519.	3.8	3
45	Hydrogen-Bond-Assisted, Crossed Dipole Ï€-Stacking in 1,4-Bis(phenylethynyl)benzene. Crystal Growth and Design, 2006, 6, 1253-1255.	3.0	26
46	Strong Ferromagnetic Exchange in 2-(4,5,6,7-Tetrafluorobenzimidazol-2-yl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyl. Chemistry of Materials, 2006, 18, 2625-2627.	6.7	15
47	Co3(RL)2(hfac)6Ladder Complex of 5-[4-(N-tert-Butyl-N-aminoxyl)phenyl]pyrimidine. Inorganic Chemistry, 2006, 45, 2562-2567.	4.0	20
48	Crystallography and Magnetism of Two 1-(4-Nitroxylphenyl)pyrroles. Journal of Organic Chemistry, 2006, 71, 9341-9347.	3.2	17
49	Zero-field splitting parameters of quintet 2,6-dinitrenopyridines. Journal of Physical Organic Chemistry, 2006, 19, 637-641.	1.9	21
50	Crystallography and magnetism of 3-(N-tert-butyl-N-aminoxyl)benzoic acid. Polyhedron, 2005, 24, 2645-2652.	2.2	13
51	Chain versus dimer contacts in crystalline 5-(4-[N-tert-butyl-N-aminoxyl]phenyl)pyrimidine radicals: Choices among competing intermolecular exchange mechanisms. Polyhedron, 2005, 24, 2639-2644.	2.2	4
52	Molecular recognition in a uradinyl-functionalized stable radical. Chemical Communications, 2005, , 895.	4.1	12
53	Cyclic M2(RL)2Coordination Complexes of 5-(3-[N-tert-Butyl-N-aminoxyl]phenyl)pyrimidine with Paramagnetic Transition Metal Dications. Inorganic Chemistry, 2005, 44, 6725-6735.	4.0	62
54	Hindered Hydrogen Bonding in 2,6-Di-tert-butylphenols with Para Aza-Heterocyclic Rings. Crystal Growth and Design, 2005, 5, 1867-1873.	3.0	2

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55	Modulating spin delocalization in conjugated nitroxides: 2-(N-aminoxyl-N-tert-butyl)-benzothiazole. Tetrahedron Letters, 2004, 45, 6295-6298.	1.4	9
56	Quintet State Electron Spin Resonance Spectra of Pyridyldinitrenes. Journal of Physical Chemistry A, 2004, 108, 6643-6649.	2.5	30
57	Crystallography and magnetism of radicals with hindered hydroxyl groups: 2-(3,5-di-tert-butyl-4-hydroxyphenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyl and 2-(3,5-di-tert-butyl-4-hydroxyphenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-1-oxyl. Chemical Communications, 2004, , 2686.	4.1	8
58	A Photoluminescent, Segmented Oligo-Polyphenylenevinylene Copolymer with Hydrogen-Bonding Pendant Chains. Chemistry of Materials, 2004, 16, 55-61.	6.7	26
59	Zero-field splitting of quintet conjugated dinitrenes: 2,6-biphenylenedinitrene. Tetrahedron Letters, 2003, 44, 2625-2628.	1.4	24
60	Coordination complexes of a silicon-linked organic tetranitroxide. Polyhedron, 2003, 22, 2363-2374.	2.2	14
61	Coordination Complexes of 1-(4-[N-tert-Butyl-N-aminoxyl]phenyl)-1H-1,2,4-triazole with Paramagnetic Transition Metal Dications. Inorganic Chemistry, 2003, 42, 7447-7454.	4.0	31
62	Magnetism of Conjugated Organic Nitroxides:â€‰ Structural Scaffolding and Exchange Pathways. Chemistry of Materials, 2003, 15, 2861-2863.	6.7	15
63	Manganese(II) and Copper(II) Hexafluoroacetylacetonate 1:1 Complexes with 5-(4-[N-tert-Butyl-N-aminoxyl]phenyl)pyrimidine:Â Regiochemical Parity Analysis for Exchange Behavior of Complexes between Radicals and Paramagnetic Cations. Journal of the American Chemical Society, 2003, 125, 10110-10118.	13.7	38
64	Molecular recognition for stable organic radicals ? 2-(6-uradinyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-1-oxylElectronic supplementary information (ESI) available: synthesis details for 1 and 2; IR data; spin density computations for 2. See http://www.rsc.org/suppdata/cc/b3/b302901h/. Chemical Communications, 2003, , 1400.	4.1	20
65	Heat Capacity and Antiferromagnetic Phase Transition of the Organic Free Radical Magnet, 2-tert-Butylaminoxylbenzimidazole (BABI). Journal of Physical Chemistry B, 2002, 106, 8615-8620.	2.6	15
66	2-(3â€²,5â€²-Difluorophenyl)nitronylnitroxide: testing spin-overlap structureâ€“property relationships for interelectronic exchange. CrystEngComm, 2002, 4, 59-63.	2.6	2
67	Role of Hydrogen Bonds in Benzimidazole-Based Organic Magnetic Materials:Â Crystal Scaffolding or Exchange Linkers?. Chemistry of Materials, 2001, 13, 2447-2454.	6.7	32
68	Methodologies for Computational Studies of Quininoidal Diiminediyls:â€‰ Biradical vs Dinitrene Behavior. Journal of Physical Chemistry A, 2001, 105, 251-260.	2.5	39
69	Hydrogen-bonded benzimidazole-based tert-butylnitroxides. Polyhedron, 2001, 20, 1465-1473.	2.2	24
70	Structureâ^'Property Relationships in Light-Emitting Polymers:Â Optical, Electrochemical, and Thermal Studies. Macromolecules, 2000, 33, 7426-7430.	4.8	68
71	Interactive Visualization of Infrared Spectral Data: Synergy of Computation, Visualization, and Experiment for Learning Spectroscopy. Journal of Chemical Education, 2000, 77, 649.	2.3	5
72	Quintet and Septet State Systems Based on Pyridylnitrenes:Â Effects of Substitution on Open-Shell High-Spin States. Journal of the American Chemical Society, 2000, 122, 1580-1588.	13.7	81

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73	Regiospecific design strategies for 3-arylpolythiophenes with pendant stable radical groups. Journal of Polymer Science Part A, 1999, 37, 779-788.	2.3	21
74	Theoretical design of high-spin organic molecules with two-center, three-electron spin-containing units. Journal of Physical Organic Chemistry, 1999, 12, 53-60.	1.9	7
75	Polymeric, H-Bonded, and Chelatable Phenoxyl and Nitroxide Radicals. Molecular Crystals and Liquid Crystals, 1999, 334, 285-294.	0.3	11
76	3,5-Di-tert-butyl-3â€˜-(N-tert-butyl-N-aminoxy)-4-oxybiphenyl:Â A Heterospin Diradical with Temperature Dependent Behavior. Journal of Organic Chemistry, 1999, 64, 5176-5182.	3.2	29
77	Synthesis, Crystallography, and Magnetic Properties of 2-tert-Butylaminoxylbenzimidazole. Chemistry of Materials, 1999, 11, 2205-2210.	6.7	28
78	Synthesis of Substituted Poly(p-phenylenevinylene) Copolymers by the Heck Method for Luminescence Studies. Macromolecules, 1999, 32, 6933-6937.	4.8	46
79	An Efficient, Simple Synthesis of 4-Azidobenzaldehyde. Synthetic Communications, 1998, 28, 1087-1092.	2.1	12
80	Synthesis of a green-emitting alternating block copolymer. Polymers for Advanced Technologies, 1998, 9, 504-510.	3.2	31
81	Design of high-spin molecules incorporating charged plus neutral spin centers. Heteroatom Chemistry, 1998, 9, 161-167.	0.7	3
82	2-(4â€˜-Nitrenophenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazole-3-oxide-1-oxyl:Â Photogeneration of a Quartet State Organic Molecule with Both Localized and Delocalized Spins. Journal of the American Chemical Society, 1998, 120, 5122-5123.	13.7	24
83	Testing the Limits of Exchange in Organic Molecules. Molecular Crystals and Liquid Crystals, 1997, 305, 553-565.	0.3	5
84	Rigid Geometry Bis(arylnitrenes) as Definitive Tests for Angular Dependence of Zero-Field Splitting in High Spin Molecules. Journal of the American Chemical Society, 1997, 119, 4771-4772.	13.7	35
85	Synthesis, characterization, and photolysis of poly[3,5-di-tert-butyl-4-[(2,4,6-tri-tert-butylphenyl)oxalato]phenylacetylene], a photochemical polyradical precursor. Journal of Polymer Science Part A, 1997, 35, 2167-2176.	2.3	11
86	Design of Organic-Based Materials with Controlled Magnetic Properties. ACS Symposium Series, 1996, , 218-235.	0.5	10
87	Aryl Oxalate Derivatives as Convenient Precursors for Generation of Aryloxyl Radicals. Journal of Organic Chemistry, 1996, 61, 1730-1738.	3.2	13
88	Electronic and Molecular Structures of Quintet Bisnitrenes as Studied by Fine-Structure ESR Spectra from Random Orientation: All the Documented ZFS Constants Correct?. Molecular Crystals and Liquid Crystals, 1996, 278, 253-260.	0.3	36
89	Experimental Investigation of Exchange in Organic Open-Shell Molecular Building Blocks for Magnetic Materials. Molecular Crystals and Liquid Crystals, 1995, 271, 147-154.	0.3	18
90	Intramolecular exchange coupling of arylnitrenes by OXYGEN. Journal of Physical Organic Chemistry, 1994, 7, 495-502.	1.9	7

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91	Syntheses of new poly (arylene vinylene) analogues: Poly (4,7-benzofuran vinylene) and poly (4,7-benzothiophene vinylene). Journal of Polymer Science Part A, 1994, 32, 65-71.	2.3	12
92	Zero-field splitting versus interelectronic distance in triplet electron spin resonance spectra of localized dinitrenes. Journal of Physical Organic Chemistry, 1993, 6, 483-487.	1.9	18
93	Theory and Experiment of Investigation of Exchange Interactions in Organic Molecules and Materials. Molecular Crystals and Liquid Crystals, 1993, 233, 17-32.	0.3	15
94	Interelectronic Exchange Interactions between Organic Radicals in the Solid State. Materials Research Society Symposia Proceedings, 1992, 247, 449.	0.1	0
95	A semiempirical investigation of interelectronic exchange coupling in bisected poly(1,4-phenylene) polycation model systems. International Journal of Quantum Chemistry, 1992, 44, 785-794.	2.0	1
96	Solid-state photochemical generation of polymeric polyradicals: Poly(4-vinylphenoxy) and copolymers with styrene. Journal of Polymer Science Part A, 1992, 30, 1335-1345.	2.3	9
97	The effect of radical trapping reagents upon formation of poly(Î±-tetrahydrothiophenio para-xylylene) polyelectrolytes by the wessling soluble precursor method. Journal of Polymer Science Part A, 1992, 30, 2223-2231.	2.3	40
98	Para-Xylylenes and analogues by base-induced elimination from 1,4-bis-(dialkylsulfoniomethyl)arene salts in poly(1,4-arylene vinylene) synthesis by the wessling soluble precursor method. Journal of Polymer Science Part A, 1992, 30, 2233-2240.	2.3	41
99	Molecular modeling of the Wittig olefination reaction: Part 2: A molecular orbital approach at the MNDO-PM3 level. Heteroatom Chemistry, 1991, 2, 265-276.	0.7	20
100	Short Communications. Biphenyl-3,4?-Dinitrene. Journal of Physical Organic Chemistry, 1991, 4, 459-462.	1.9	12
101	Molecular modeling of oxaphosphetane intermediates of wittig olefination reactions. Heteroatom Chemistry, 1990, 1, 255-259.	0.7	13
102	Computational Modeling of Pi-Conjugated Polyradicals. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1989, 176, 125-137.	0.3	9
103	Organic Polyradical Models for Organic Magnetic Materials. Materials Research Society Symposia Proceedings, 1989, 173, 83.	0.1	3