Vincent Lemaur

List of Publications by Year
in descending order

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Version: 2024-02-01

59 papers	3,623 citations	257357 24 h-index	138417 58 g-index
60 all docs	60 docs citations	60 times ranked	5103 citing authors

#	Article	IF	Citations
1	Approaching disorder-free transport in high-mobility conjugated polymers. Nature, 2014, 515, 384-388.	13.7	844
2	Charge Transport Properties in Discotic Liquid Crystals:â€‰ A Quantum-Chemical Insight into Structureâ^'Property Relationships. Journal of the American Chemical Society, 2004, 126, 3271-3279.	6.6	464
3	Photoinduced Charge Generation and Recombination Dynamics in Model Donor/Acceptor Pairs for Organic Solar Cell Applications:â€‰ A Full Quantum-Chemical Treatment. Journal of the American Chemical Society, 2005, 127, 6077-6086.	6.6	314
4	Highly emissive excitons with reduced exchange energy in thermally activated delayed fluorescent molecules. Nature Communications, 2019, 10, 597.	5.8	253
5	Charge Transport in Discotic Liquid Crystals: A Molecular Scale Description. Advanced Materials, 2002, 14, 726.	11.1	166
6	Electronic and optical properties of polyfluorene and fluorene-based copolymers: A quantum-chemical characterization. Journal of Chemical Physics, 2003, 118, 6615-6623.	1.2	160
7	Bulky Endâ€Capped [1]Benzothieno[3,2â€b]benzothiophenes: Reaching Highâ€Mobility Organic Semiconductors by Fine Tuning of the Crystalline Solidâ€State Order. Advanced Materials, 2015, 27, 3066-3072.	11.1	155
8	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2â€b][1]benzothiophene. Advanced Materials, 2016, 28, 7106-7114.	11.1	138
9	Simple Approach for a Self-Healable and Stiff Polymer Network from Iminoboronate-Based Boroxine Chemistry. Chemistry of Materials, 2019, 31, 3736-3744.	3.2	87
10	Highâ€Efficiency Ionâ€Exchange Doping of Conducting Polymers. Advanced Materials, 2022, 34, e2102988.	11.1	67
11	Asymmetric electron and hole transport in a high-mobility<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type conjugated polymer. Physical Review B, 2012, 86, .	1.1	63
12	Thienoacene dimers based on the thieno[3,2-b]thiophene moiety: synthesis, characterization and electronic properties. Journal of Materials Chemistry C, 2015, 3, 674-685.	2.7	62
13	Synthesis of poly(<scp>l</scp>-lactide) and gradient copolymers from a<scp>l</scp>-lactide/trimethylene carbonate eutectic melt. Chemical Science, 2012, 3, 723-726.	3.7	45
14	Neutral Mononuclear Copper(I) Complexes: Synthesis, Crystal Structures, and Photophysical Properties. Inorganic Chemistry, 2016, 55, 5845-5852.	1.9	45
15	Structural and Dynamic Disorder, Not Ionic Trapping, Controls Charge Transport in Highly Doped Conducting Polymers. Journal of the American Chemical Society, 2022, 144, 3005-3019.	6.6	45
16	Size Dependence of the Folding of Multiply Charged Sodium Cationized Polylactides Revealed by Ion Mobility Mass Spectrometry and Molecular Modelling. Chemistry - A European Journal, 2011, 17, 9738-9745.	1.7	41
17	Polaron spin dynamics in high-mobility polymeric semiconductors. Nature Physics, 2019, 15, 814-822.	6.5	40
18	Origin of the different transport properties of electron and hole polarons in an ambipolar polyselenophene-based conjugated polymer. Physical Review B, 2011, 84, .	1.1	39

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19	Efficiency of DBU/iodine cooperative dual catalysis for the solvent-free synthesis of five-membered cyclic carbonates under atmospheric CO2 pressure. Journal of CO2 Utilization, 2015, 10, 7-11.	3.3	35
20	Resilience to Conformational Fluctuations Controls Energetic Disorder in Conjugated Polymer Materials: Insights from Atomistic Simulations. Chemistry of Materials, 2019, 31, 6889-6899.	3.2	30
21	A one-pot two-step efficient metal-free process for the generation of PEO-b-PCL-b-PLA amphiphilic triblock copolymers. RSC Advances, 2014, 4, 10028.	1.7	28
22	Repurposing DNA-binding agents as H-bonded organic semiconductors. Nature Communications, 2019, 10, 4217.	5.8	28
23	Charge transport physics of a unique class of rigid-rod conjugated polymers with fused-ring conjugated units linked by double carbon-carbon bonds. Science Advances, 2021, 7, .	4.7	28
24	Measurements of Ambipolar Seebeck Coefficients in Highâ€Mobility Diketopyrrolopyrrole Donorâ€“Acceptor Copolymers. Advanced Electronic Materials, 2017, 3, 1700225.	2.6	26
25	Luminescent Dinuclear Copper(I) Complexes Bearing an Imidazolylpyrimidine Bridging Ligand. Inorganic Chemistry, 2020, 59, 14772-14784.	1.9	26
26	Correlation between the shape of the ion mobility signals and the stepwise folding process of polylactide ions. Journal of Mass Spectrometry, 2017, 52, 133-138.	0.7	25
27	Carbeneâ€“Metalâ€“Amide Polycrystalline Materials Feature Blue Shifted Energy yet Unchanged Kinetics of Emission. Chemistry of Materials, 2020, 32, 4743-4753.	3.2	25
28	Analysis of External and Internal Disorder to Understand Bandâ€Like Transport in nâ€Type Organic Semiconductors. Advanced Materials, 2021, 33, 2007870.	11.1	24
29	Photochemistry of ruthenium(<scp>ii</scp>) complexes based on 1,4,5,8-tetraazaphenanthrene and 2,2â€²-bipyrazine: a comprehensive experimental and theoretical study. Dalton Transactions, 2017, 46, 6623-6633.	1.6	23
30	PEPDROID: Development of a Generic DREIDINGâ€Based Force Field for the Assessment of Peptoid Secondary Structures. Advanced Theory and Simulations, 2018, 1, 1800089.	1.3	21
31	Tackling saponin diversity in marine animals by mass spectrometry: data acquisition and integration. Analytical and Bioanalytical Chemistry, 2017, 409, 3115-3126.	1.9	20
32	On the Relation between Morphology and FET Mobility of Poly(3â€alkylthiophene)s at the Polymer/SiO₂ and Polymer/Air Interface. Advanced Functional Materials, 2014, 24, 1994-2004.	7.8	17
33	Ion mobility mass spectrometry of saponin ions. Rapid Communications in Mass Spectrometry, 2019, 33, 22-33.	0.7	17
34	Homotropic Allosterism: Inâ€Depth Structural Analysis of the Gasâ€Phase Noncovalent Complexes Associating a Doubleâ€Cavity Cucurbit[n]urilâ€Type Host and Sizeâ€Selected Protonated Amino Compounds. ChemPlusChem, 2013, 78, 959-969.	1.3	16
35	Photoaddition of Two Guanine Bases to Single Ru-TAP Complexes. Computational Studies and Ultrafast Spectroscopies to Elucidate the pH Dependence of Primary Processes. Journal of Physical Chemistry B, 2015, 119, 4488-4500.	1.2	15
36	Influence of Equilibration Time in Solution on the Inclusion/Exclusion Topology Ratio of Hostâ€“Guest Complexes Probed by Ion Mobility and Collisionâ€Induced Dissociation. Chemistry - A European Journal, 2016, 22, 4528-4534.	1.7	15

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37	Stereoselective ROP of rac- and meso-Lactides Using Achiral TBD as Catalyst. Catalysts, 2020, 10, 620.	1.6	15
38	Potential of polymethacrylate pseudo crown ethers as solid state polymer electrolytes. Chemical Communications, 2017, 53, 6899-6902.	2.2	14
39	Comprehensive modelling study of singlet exciton diffusion in donorâ€“acceptor dyads: when small changes in chemical structure matter. Physical Chemistry Chemical Physics, 2019, 21, 25023-25034.	1.3	14
40	Dynamic self-stabilization in the electronic and nanomechanical properties of an organic polymer semiconductor. Nature Communications, 2022, 13, .	5.8	14
41	Thermal conductivity of benzothieno-benzothiophene derivatives at the nanoscale. Nanoscale, 2021, 13, 3800-3807.	2.8	12
42	Strong Suppression of Thermal Conductivity in the Presence of Long Terminal Alkyl Chains in Lowâ€Đisorder Molecular Semiconductors. Advanced Materials, 2021, 33, e2008708.	11.1	12
43	One Step Further in the Characterization of Synthetic Polymers by Ion Mobility Mass Spectrometry: Evaluating the Contribution of End-groups. Polymers, 2019, 11, 688.	2.0	11
44	Flying Cages in Traveling Wave Ion Mobility: Influence of the Instrumental Parameters on the Topology of the Hostâ€“Guest Complexes. Journal of the American Society for Mass Spectrometry, 2018, 29, 121-132.	1.2	9
45	Effects of electrospray mechanisms and structural relaxation on polylactide ion conformations in the gas phase: insights from ion mobility spectrometry and molecular dynamics simulations. Physical Chemistry Chemical Physics, 2020, 22, 4193-4204.	1.3	9
46	Tuning Short Contacts between Polymer Chains To Enhance Charge Transport in Amorphous Donorâ€“Acceptor Polymers. Journal of Physical Chemistry C, 2022, 126, 3118-3126.	1.5	8
47	Doping of semicrystalline conjugated polymers: dopants within alkyl chains do it better. Journal of Materials Chemistry C, 2022, 10, 13815-13825.	2.7	8
48	Monosaccharides Dehydration Assisted by Formation of Borate Esters of Î±-Hydroxyacids in Choline Chloride-Based Low Melting Mixtures. Frontiers in Chemistry, 2020, 8, 569.	1.8	7
49	Helicity of Peptoid Ions in the Gas Phase. Biomacromolecules, 2020, 21, 903-909.	2.6	7
50	Design, Characterization and Molecular Modeling of New Fluorinated Paramagnetic Contrast Agents for Dual 1H/19F MRI. Magnetochemistry, 2020, 6, 8.	1.0	6
51	Dinaphthotetrathienoacenes: Synthesis, Characterization, and Applications in Organic Fieldâ€Effect Transistors. Advanced Science, 2022, 9, e2105674.	5.6	6
52	Revealing the Organization of Catalytic Sequence-Defined Oligomers via Combined Molecular Dynamics Simulations and Network Analysis. Journal of Chemical Information and Modeling, 2022, 62, 2761-2770.	2.5	5
53	Parameters influencing the photo-induced electron transfer from tryptophan-containing peptides to a Ru^{II} complex: a systematic study. Faraday Discussions, 2015, 185, 267-284.	1.6	4
54	Sodium Coordination and Protonation of Poly(ethoxy phosphate) Chains in the Gas Phase Probed by Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 633-641.	1.2	4

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55	Backbone Cleavages of Protonated Peptoids upon Collision-Induced Dissociation: Competitive and Consecutive B-Y and A₁-Y_X Reactions. Journal of the American Society for Mass Spectrometry, 2019, 30, 2726-2740.	1.2	3
56	Linking triptycene to silole: a fruitful association. Materials Chemistry Frontiers, 2020, 4, 2006-2017.	3.2	3
57	White light emitting silsesquioxane based materials: the importance of a ligand with rigid and directional arms. Materials Advances, 2022, 3, 570-578.	2.6	3
58	Discrimination of positional isomers by ion mobility mass spectrometry: application to organic semiconductors. Analytical Methods, 2018, 10, 2303-2306.	1.3	2
59	Charge Carrier Mobility: Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2-b][1]benzothiophene (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	13.3	3