

Yoan Olivier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8231028/yoan-olivier-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

8,840
citations

44
h-index

93
g-index

123
ext. papers

10,257
ext. citations

9.9
avg, IF

6.05
L-index

#	Paper	IF	Citations
111	Diindolocarbazole - achieving multiresonant thermally activated delayed fluorescence without the need for acceptor units.. <i>Materials Horizons</i> , 2022 ,	14.4	7
110	Multi-resonant thermally activated delayed fluorescence emitters based on tetracoordinate boron-containing PAHs: colour tuning based on the nature of chelates.. <i>Chemical Science</i> , 2022 , 13, 1665-1674	9.4	4
109	Enhancing Thermally Activated Delayed Fluorescence by Fine-Tuning the Dendron Donor Strength.. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	2
108	Violation of Hund's rule in molecules: Predicting the excited-state energy inversion by TD-DFT with double-hybrid methods.. <i>Journal of Chemical Physics</i> , 2022 , 156, 034105	3.9	6
107	Spontaneous exciton dissociation enables spin state interconversion in delayed fluorescence organic semiconductors. <i>Nature Communications</i> , 2021 , 12, 6640	17.4	5
106	19-2: Invited Paper: Design of Multi-Resonance Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 228-231	0.5	0
105	Singlet-Triplet Excited-State Inversion in Heptazine and Related Molecules: Assessment of TD-DFT and ab initio Methods. <i>ChemPhysChem</i> , 2021 , 22, 553-560	3.2	13
104	Negative Singlet-Triplet Excitation Energy Gap in Triangle-Shaped Molecular Emitters for Efficient Triplet Harvesting. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 513-522	2.8	15
103	Analysis of External and Internal Disorder to Understand Band-Like Transport in n-Type Organic Semiconductors. <i>Advanced Materials</i> , 2021 , 33, e2007870	24	8
102	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17910-17914	16.4	42
101	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. <i>Angewandte Chemie</i> , 2021 , 133, 18054-18058	3.6	10
100	Identification of the Key Parameters for Horizontal Transition Dipole Orientation in Fluorescent and TADF Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2021 , 33, e2100677	24	25
99	Spiro-Based Thermally Activated Delayed Fluorescence Emitters with Reduced Nonradiative Decay for High-Quantum-Efficiency, Low-Roll-Off, Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44628-44640	9.5	2
98	-Acenoacene molecules: tuning of the singlet and triplet excitation energies by modifying their radical character. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 24016-24028	3.6	0
97	Carbene-Metal-Amide Polycrystalline Materials Feature Blue Shifted Energy yet Unchanged Kinetics of Emission. <i>Chemistry of Materials</i> , 2020 , 32, 4743-4753	9.6	13
96	The design of an extended multiple resonance TADF emitter based on a polycyclic amine/carbonyl system. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2018-2022	7.8	37
95	Multiresonant Thermally Activated Delayed Fluorescence Emitters Based on Heteroatom-Doped Nanographenes: Recent Advances and Prospects for Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1908677	15.6	148

94	A Deep Blue B,N-Doped Heptacene Emitter That Shows Both Thermally Activated Delayed Fluorescence and Delayed Fluorescence by Triplet-Triplet Annihilation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6588-6599	16.4	71
93	Computational Studies of Molecular Materials for Unconventional Energy Conversion: The Challenge of Light Emission by Thermally Activated Delayed Fluorescence. <i>Molecules</i> , 2020 , 25,	4.8	10
92	Exciton efficiency beyond the spin statistical limit in organic light emitting diodes based on anthracene derivatives. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3773-3783	7.1	13
91	Intramolecular Borylation via Sequential B-Mes Bond Cleavage for the Divergent Synthesis of B,N,B-Doped Benzo[4]helicenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3156-3160	16.4	42
90	Divergente Synthese von B,N,B-Benzo[4]helicenen durch intramolekulare Borylierung unter sequenzieller B-Mes-Bindungsspaltung. <i>Angewandte Chemie</i> , 2020 , 132, 3181-3185	3.6	12
89	Improving Processability and Efficiency of Resonant TADF Emitters: A Design Strategy. <i>Advanced Optical Materials</i> , 2020 , 8, 1901627	8.1	85
88	White-light electroluminescence from a layer incorporating a single fully-organic spiro compound with phosphine oxide substituents. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14462-14468	7.1	4
87	Luminescent Dinuclear Copper(I) Complexes Bearing an Imidazolylpyrimidine Bridging Ligand. <i>Inorganic Chemistry</i> , 2020 , 59, 14772-14784	5.1	9
86	Highly emissive excitons with reduced exchange energy in thermally activated delayed fluorescent molecules. <i>Nature Communications</i> , 2019 , 10, 597	17.4	113
85	Multiple Charge Transfer States in Donor-Acceptor Heterojunctions with Large Frontier Orbital Energy Offsets. <i>Chemistry of Materials</i> , 2019 , 31, 6808-6817	9.6	13
84	Polaron spin dynamics in high-mobility polymeric semiconductors. <i>Nature Physics</i> , 2019 , 15, 814-822	16.2	27
83	Short contacts between chains enhancing luminescence quantum yields and carrier mobilities in conjugated copolymers. <i>Nature Communications</i> , 2019 , 10, 2614	17.4	29
82	Impact of structural anisotropy on electro-mechanical response in crystalline organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4382-4391	7.1	8
81	Photoluminescence Quenching Probes Spin Conversion and Exciton Dynamics in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Materials</i> , 2019 , 31, e1804490	24	25
80	Tuning conformation, assembly, and charge transport properties of conjugated polymers by printing flow. <i>Science Advances</i> , 2019 , 5, eaaw7757	14.3	63
79	Crossed 2D versus Slipped 1D π -Stacking in Polymorphs of Crystalline Organic Thin Films: Impact on the Electronic and Optical Response. <i>Advanced Optical Materials</i> , 2019 , 7, 1900749	8.1	9
78	Resilience to Conformational Fluctuations Controls Energetic Disorder in Conjugated Polymer Materials: Insights from Atomistic Simulations. <i>Chemistry of Materials</i> , 2019 , 31, 6889-6899	9.6	14
77	Comprehensive modelling study of singlet exciton diffusion in donor-acceptor dyads: when small changes in chemical structure matter. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25023-25034	3.6	9

76	Robust singlet fission in pentacene thin films with tuned charge transfer interactions. <i>Nature Communications</i> , 2018 , 9, 954	17.4	50
75	Carbene-Metal-Amide Bond Deformation, Rather Than Ligand Rotation, Drives Delayed Fluorescence. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1620-1626	6.4	46
74	Unusual electromechanical response in rubrene single crystals. <i>Materials Horizons</i> , 2018 , 5, 41-50	14.4	24
73	Collective molecular switching in hybrid superlattices for light-modulated two-dimensional electronics. <i>Nature Communications</i> , 2018 , 9, 2661	17.4	42
72	N-doped cycloparaphenylenes: Tuning electronic properties for applications in thermally activated delayed fluorescence. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25562	2.1	7
71	Application of Rubrene Air-Gap Transistors as Sensitive MEMS Physical Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41570-41577	9.5	9
70	Computational Design of Thermally Activated Delayed Fluorescence Materials: The Challenges Ahead. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6149-6163	6.4	76
69	Deep-Blue Oxadiazole-Containing Thermally Activated Delayed Fluorescence Emitters for Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33360-33372	9.5	58
68	20-1: Invited Paper: Towards Deep-Blue Materials with Efficient Triplet Harvesting. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 239-242	0.5	1
67	Vibrationally Assisted Intersystem Crossing in Benchmark Thermally Activated Delayed Fluorescence Molecules. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4053-4058	6.4	47
66	Donor-acceptor stacking arrangements in bulk and thin-film high-mobility conjugated polymers characterized using molecular modelling and MAS and surface-enhanced solid-state NMR spectroscopy. <i>Chemical Science</i> , 2017 , 8, 3126-3136	9.4	50
65	Ultrafast Exciton-to-Polaron Conversion in Densely Packed Small Organic Semiconducting Molecules. <i>Advanced Optical Materials</i> , 2017 , 5, 1700024	8.1	13
64	Estimation of Electronic Couplings from Current Measurements. <i>Nano Letters</i> , 2017 , 17, 3215-3224	11.5	23
63	Periodic potentials in hybrid van der Waals heterostructures formed by supramolecular lattices on graphene. <i>Nature Communications</i> , 2017 , 8, 14767	17.4	56
62	Dynamic nature of excited states of donor-acceptor TADF materials for OLEDs: how theory can reveal structure-property relationships. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5718-5729	7.1	71
61	Measurements of Ambipolar Seebeck Coefficients in High-Mobility Diketopyrrolopyrrole Donor-Acceptor Copolymers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700225	6.4	19
60	Pressure sensor based on organic single crystal air-gap transistor 2017 ,		1
59	Nature of the singlet and triplet excitations mediating thermally activated delayed fluorescence. <i>Physical Review Materials</i> , 2017 , 1,	3.2	65

58	Highly Luminescent 2D-Type Slab Crystals Based on a Molecular Charge-Transfer Complex as Promising Organic Light-Emitting Transistor Materials. <i>Advanced Materials</i> , 2017 , 29, 1701346	24	80
57	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. Mater. 33/2016). <i>Advanced Materials</i> , 2016 , 28, 7291-7291	24	
56	Electronic Structure and Charge Transport in Nanostripped Graphene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20024-20032	3.8	7
55	Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with π -Functionalized Alkanes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2714-21	6.4	64
54	Charge Separation and Recombination at Polymer-Fullerene Heterojunctions: Delocalization and Hybridization Effects. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 536-40	6.4	81
53	Do charges delocalize over multiple molecules in fullerene derivatives?. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3747-3756	7.1	36
52	Temperature Dependence of Charge Localization in High-Mobility, Solution-Crystallized Small Molecule Semiconductors Studied by Charge Modulation Spectroscopy. <i>Advanced Functional Materials</i> , 2016 , 26, 2326-2333	15.6	25
51	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2-b][1]benzothiophene. <i>Advanced Materials</i> , 2016 , 28, 7106-14	24	117
50	Bis(arylene-ethynylene)-s-tetrazines: A Promising Family of n-Type Organic Semiconductors?. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18945-18955	3.8	16
49	Cost-Effective Force Field Tailored for Solid-Phase Simulations of OLED Materials. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3383-92	6.4	16
48	Bulky end-capped [1]benzothieno[3,2-b]benzothiophenes: reaching high-mobility organic semiconductors by fine tuning of the crystalline solid-state order. <i>Advanced Materials</i> , 2015 , 27, 3066-72	24	133
47	Ultrafast Charge Generation Pathways in Photovoltaic Blends Based on Novel Star-Shaped Conjugated Molecules. <i>Advanced Energy Materials</i> , 2015 , 5, 1401657	21.8	26
46	Thienoacene dimers based on the thieno[3,2-b]thiophene moiety: synthesis, characterization and electronic properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 674-685	7.1	52
45	First-Principles Quantum Dynamics of Singlet Fission: Coherent versus Thermally Activated Mechanisms Governed by Molecular π -Stacking. <i>Physical Review Letters</i> , 2015 , 115, 107401	7.4	122
44	Theoretical rationalization of the singlet-triplet gap in OLEDs materials: impact of charge-transfer character. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 168-77	6.4	86
43	Determining the cohesive energy of coronene by dispersion-corrected DFT methods: periodic boundary conditions vs. molecular pairs. <i>Journal of Chemical Physics</i> , 2015 , 142, 054702	3.9	9
42	Ultrafast Electron and Hole Dynamics in Novel Conjugated Star-Shaped Molecules. <i>Springer Proceedings in Physics</i> , 2015 , 564-567	0.2	
41	25th anniversary article: high-mobility hole and electron transport conjugated polymers: how structure defines function. <i>Advanced Materials</i> , 2014 , 26, 2119-36	24	182

40	Polymorphism in Bulk and Thin Films: The Curious Case of Dithiophene-DPP(Boc)-Dithiophene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 657-669	3.8	26
39	Charge dissociation at interfaces between discotic liquid crystals: the surprising role of column mismatch. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2911-20	16.4	51
38	What Currently Limits Charge Carrier Mobility in Crystals of Molecular Semiconductors?. <i>Israel Journal of Chemistry</i> , 2014 , 54, 595-620	3.4	81
37	Quinquephenyl: the simplest rigid-rod-like nematic liquid crystal, or is it? An atomistic simulation. <i>ChemPhysChem</i> , 2014 , 15, 1345-55	3.2	27
36	Approaching disorder-free transport in high-mobility conjugated polymers. <i>Nature</i> , 2014 , 515, 384-8	50.4	692
35	Maximizing Singlet Fission by Intermolecular Packing. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3345-53	5.3	113
34	Structure Influence on Charge Transport in Naphthalenediimide-Thiophene Copolymers. <i>Chemistry of Materials</i> , 2014 , 26, 6796-6804	9.6	44
33	Charge Transport in Organic Semiconductors: A Multiscale Modeling 2014 , 1-38		
32	Tuning of the Photovoltaic Parameters of Molecular Donors by Covalent Bridging. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	5
31	On the Supramolecular Packing of High Electron Mobility Naphthalene Diimide Copolymers: The Perfect Registry of Asymmetric Branched Alkyl Side Chains. <i>Macromolecules</i> , 2013 , 46, 8171-8178	5.5	37
30	Roles of local and nonlocal electron-phonon couplings in triplet exciton diffusion in the anthracene crystal. <i>Physical Review B</i> , 2013 , 88,	3.3	16
29	Exploring the energy landscape of the charge transport levels in organic semiconductors at the molecular scale. <i>Accounts of Chemical Research</i> , 2013 , 46, 434-43	24.3	59
28	Free radical scavenging by natural polyphenols: atom versus electron transfer. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2082-92	2.8	172
27	Charge-transfer excitations steer the Davydov splitting and mediate singlet exciton fission in pentacene. <i>Physical Review Letters</i> , 2013 , 110, 226402	7.4	217
26	Conjugated poly(azomethine)s via simple one-step polycondensation chemistry: synthesis, thermal and optoelectronic properties. <i>Polymer Chemistry</i> , 2013 , 4, 4182	4.9	37
25	Obtaining the lattice energy of the anthracene crystal by modern yet affordable first-principles methods. <i>Journal of Chemical Physics</i> , 2013 , 138, 204304	3.9	17
24	Unraveling the mechanism of molecular doping in organic semiconductors. <i>Advanced Materials</i> , 2012 , 24, 1535-9	24	101
23	Asymmetric electron and hole transport in a high-mobility n-type conjugated polymer. <i>Physical Review B</i> , 2012 , 86,	3.3	58

22	Reliable DFT-based estimates of cohesive energies of organic solids: the anthracene crystal. <i>Journal of Chemical Physics</i> , 2012 , 137, 194311	3.9	12
21	Polarizability and internal charge transfer in thiophene-triphenylamine hybrid π -conjugated systems. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 9379-86	3.4	48
20	Hall-effect measurements probing the degree of charge-carrier delocalization in solution-processed crystalline molecular semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066601	7.4	94
19	Electronic and structural characterisation of a tetrathiafulvalene compound as a potential candidate for ambipolar transport properties. <i>CrystEngComm</i> , 2011 , 13, 6597	3.3	16
18	The nature of singlet excitons in oligoacene molecular crystals. <i>Journal of Chemical Physics</i> , 2011 , 134, 204703	3.9	208
17	Electron-Withdrawing Substituted Tetrathiafulvalenes as Ambipolar Semiconductors \square <i>Chemistry of Materials</i> , 2011 , 23, 851-861	9.6	29
16	Supramolecular organization and charge transport properties of self-assembled π -stacks of perylene diimide dyes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5593-603	3.4	43
15	Benzodibromomethoxytetrathiafulvalene derivatives as soluble organic semiconductors. <i>Journal of Organic Chemistry</i> , 2011 , 76, 154-63	4.2	15
14	Structural and Charge-Transport Properties of a Liquid-Crystalline π -Disubstituted Thiophene Derivative: A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4617-4627	3.8	17
13	Molecular packing and charge transport parameters in crystalline organic semiconductors from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9381-8	3.6	56
12	Theoretical characterization of charge transport in one-dimensional collinear arrays of organic conjugated molecules. <i>ChemPhysChem</i> , 2010 , 11, 1062-8	3.2	34
11	Deposition of Functional Organic Thin Films by Pulsed Plasma Polymerization: A Joint Theoretical and Experimental Study. <i>Plasma Processes and Polymers</i> , 2010 , 7, 172-181	3.4	47
10	Modeling Polymer Dielectric/Pentacene Interfaces: On the Role of Electrostatic Energy Disorder on Charge Carrier Mobility. <i>Advanced Functional Materials</i> , 2009 , 19, 3254-3261	15.6	72
9	Influence of intermolecular vibrations on the electronic coupling in organic semiconductors: the case of anthracene and perfluoropentacene. <i>ChemPhysChem</i> , 2009 , 10, 2265-73	3.2	69
8	Inside Cover: Influence of Intermolecular Vibrations on the Electronic Coupling in Organic Semiconductors: The Case of Anthracene and Perfluoropentacene (ChemPhysChem 13/2009). <i>ChemPhysChem</i> , 2009 , 10, 2158-2158	3.2	
7	Theoretical characterization of the structural and hole transport dynamics in liquid-crystalline phthalocyanine stacks. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 14102-11	3.4	82
6	Charge Transport in Conjugated Materials: From Theoretical Models to Experimental Systems. <i>AIP Conference Proceedings</i> , 2008 ,	0	2
5	Depolarization Effects in Self-Assembled Monolayers: A Quantum-Chemical Insight. <i>Advanced Functional Materials</i> , 2007 , 17, 1143-1148	15.6	96

4	Charge transport in organic semiconductors. <i>Chemical Reviews</i> , 2007 , 107, 926-52	68.1	3363
3	Charge hopping in organic semiconductors: influence of molecular parameters on macroscopic mobilities in model one-dimensional stacks. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6356-64	2.8	139
2	Photoluminescence and Electrochemiluminescence of Thermally Activated Delayed Fluorescence (TADF) Emitters Containing Diphenylphosphine Chalcogenide-Substituted Carbazole Donors. <i>Journal of Materials Chemistry C</i> ,	7.1	3
1	Substitution Effects on a New Pyridylbenzimidazole Acceptor for Thermally Activated Delayed Fluorescence and Their Use in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2100846	8.1	0