

# Florian Auras

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

5,132  
citations

201674

27  
h-index

289244

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

6656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deoxyribonucleic Acid Encoded and Size-Defined $\pi$ -Stacking of Perylene Diimides. <i>Journal of the American Chemical Society</i> , 2022, 144, 368-376.	13.7	15
2	Fast-Switching Visâ€“IR Electrochromic Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 7351-7357.	13.7	95
3	Slow carrier relaxation in tin-based perovskite nanocrystals. <i>Nature Photonics</i> , 2021, 15, 696-702.	31.4	40
4	Efficient and Spectrally Stable Blue Perovskite Lightâ€“Emitting Diodes Employing a Cationic $\pi$ -Conjugated Polymer. <i>Advanced Materials</i> , 2021, 33, e2103640.	21.0	77
5	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , 2021, 12, 6519.	12.8	32
6	Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. <i>Nature Electronics</i> , 2020, 3, 704-710.	26.0	143
7	Highly efficient luminescence from space-confined charge-transfer emitters. <i>Nature Materials</i> , 2020, 19, 1332-1338.	27.5	413
8	Femtosecond Transient Absorption Microscopy of Singlet Exciton Motion in Side-Chain Engineered Perylene-Diimide Thin Films. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2721-2730.	2.5	23
9	Perylene-Based Covalent Organic Frameworks for Acid Vapor Sensing. <i>Journal of the American Chemical Society</i> , 2019, 141, 15693-15699.	13.7	212
10	Excited-State Dynamics in Fully Conjugated 2D Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 11565-11571.	13.7	89
11	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO <sub>2</sub> cathode interlayers for highly efficient and extremely stable polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1459-1469.	5.5	25
12	High-efficiency perovskiteâ€“polymer bulk heterostructure light-emitting diodes. <i>Nature Photonics</i> , 2018, 12, 783-789.	31.4	715
13	Enforcing Extended Porphyrin J-Aggregate Stacking in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 16544-16552.	13.7	123
14	Solvatochromic covalent organic frameworks. <i>Nature Communications</i> , 2018, 9, 3802.	12.8	171
15	Engineering of Porphyrin Molecules for Use as Effective Cathode Interfacial Modifiers in Organic Solar Cells of Enhanced Efficiency and Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20728-20739.	8.0	22
16	Low Work Function Lacunary Polyoxometalates as Electron Transport Interlayers for Inverted Polymer Solar Cells of Improved Efficiency and Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22773-22787.	8.0	23
17	Spectrally Switchable Photodetection with Near-Infrared-Absorbing Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 12035-12042.	13.7	181
18	Preparation of Polyfunctional Naphthyridines by Cobalt-Catalyzed Cross-Couplings of Halogenated Naphthyridines with Magnesium and Zinc Organometallics. <i>Organic Letters</i> , 2017, 19, 6384-6387.	4.6	17

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19	Oligothiophene-Bridged Conjugated Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8194-8199.	13.7	121
20	Hydrogen and nitrogen codoping of anatase TiO <sub>2</sub> for efficiency enhancement in organic solar cells. <i>Scientific Reports</i> , 2017, 7, 17839.	3.3	24
21	Synchronized Offset Stacking: A Concept for Growing Large-Domain and Highly Crystalline 2D Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 16703-16710.	13.7	199
22	Synthesis and Reactivity of Triazaphenanthrenes. <i>Organic Letters</i> , 2016, 18, 3158-3161.	4.6	10
23	Molecular docking sites designed for the generation of highly crystalline covalent organic frameworks. <i>Nature Chemistry</i> , 2016, 8, 310-316.	13.6	436
24	Exploration of MOF nanoparticle sizes using various physical characterization methods “is what you measure what you get?”. <i>CrystEngComm</i> , 2016, 18, 4359-4368.	2.6	100
25	From Highly Crystalline to Outer Surface-Functionalized Covalent Organic Frameworks—A Modulation Approach. <i>Journal of the American Chemical Society</i> , 2016, 138, 1234-1239.	13.7	147
26	Room Temperature Synthesis of Covalent Organic Framework Films through Vapor-Assisted Conversion. <i>Journal of the American Chemical Society</i> , 2015, 137, 1016-1019.	13.7	257
27	Functionalized PCN-6 metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2015, 216, 51-55.	4.4	17
28	Selective Functionalization of Tetrathiafulvalene Using Mg- and Zn-TMP-Bases: Preparation of Mono-, Di-, Tri-, and Tetrasubstituted Derivatives. <i>Organic Letters</i> , 2015, 17, 5356-5359.	4.6	14
29	Functionalization of Quinoxalines by Using TMP Bases: Preparation of Tetracyclic Heterocycles with High Photoluminescence Quantum Yields. <i>Chemistry - A European Journal</i> , 2015, 21, 1102-1107.	3.3	20
30	Extraction of Photogenerated Electrons and Holes from a Covalent Organic Framework Integrated Heterojunction. <i>Journal of the American Chemical Society</i> , 2014, 136, 17802-17807.	13.7	354
31	A Zinc Phthalocyanine Based Periodic Mesoporous Organosilica Exhibiting Charge Transfer to Fullerenes. <i>Chemistry - A European Journal</i> , 2014, 20, 14971-14975.	3.3	25
32	Atomic Layer Deposited Aluminum and Zirconium Oxides for Surface Passivation of TiO <sub>2</sub> in High Efficiency Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2014, 4, 1400214.	19.5	52
33	Oriented Thin Films of a Benzodithiophene Covalent Organic Framework. <i>ACS Nano</i> , 2014, 8, 4042-4052.	14.6	188
34	A Photoactive Porphyrin-Based Periodic Mesoporous Organosilica Thin Film. <i>Journal of the American Chemical Society</i> , 2013, 135, 18513-18519.	13.7	48
35	A Photoconductive Thienothiophene-Based Covalent Organic Framework Showing Charge Transfer Towards Included Fullerene. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2920-2924.	13.8	385
36	Length-Dependent Charge Generation from Vertical Arrays of High Aspect Ratio ZnO Nanowires. <i>Chemistry - A European Journal</i> , 2013, 19, 14665-14674.	3.3	70

#	ARTICLE	IF	CITATIONS
37	Synthesis and characterization of CuInS <sub>2</sub> thin film structures. Journal of Materials Science, 2012, 47, 1669-1676.	3.7	8
38	Characterization of Interfacial Modifiers for Hybrid Solar Cells. Journal of Physical Chemistry C, 2011, 115, 15081-15088.	3.1	42
39	Synthesis and Stability of Homoleptic Metal(III) Tetramethylaluminates. Journal of the American Chemical Society, 2011, 133, 6323-6337.	13.7	90