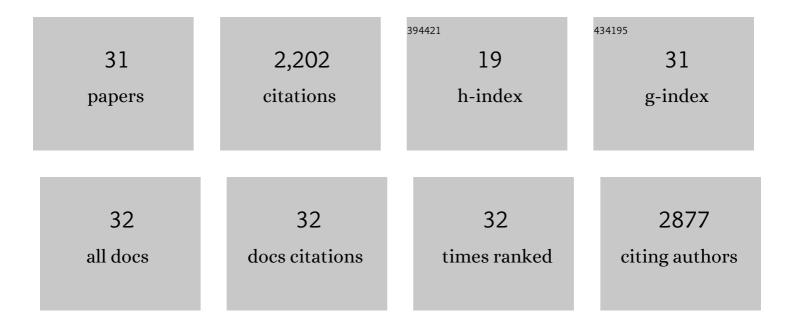
LoÃ⁻c M Roch

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The influence of sorbitol doping on aggregation and electronic properties of PEDOT:PSS: a theoretical study. Machine Learning: Science and Technology, 2021, 2, 01LT01.	5.0	4
2	Olympus: a benchmarking framework for noisy optimization and experiment planning. Machine Learning: Science and Technology, 2021, 2, 035021.	5.0	31
3	Data-science driven autonomous process optimization. Communications Chemistry, 2021, 4, .	4.5	94
4	G <scp>ryffin</scp> : An algorithm for Bayesian optimization of categorical variables informed by expert knowledge. Applied Physics Reviews, 2021, 8, .	11.3	61
5	Designing and understanding light-harvesting devices with machine learning. Nature Communications, 2020, 11, 4587.	12.8	57
6	Self-driving laboratory for accelerated discovery of thin-film materials. Science Advances, 2020, 6, eaaz8867.	10.3	306
7	Beyond Ternary OPV: Highâ€Throughput Experimentation and Selfâ€Driving Laboratories Optimize Multicomponent Systems. Advanced Materials, 2020, 32, e1907801.	21.0	138
8	Film Fabrication Techniques: Beyond Ternary OPV: Highâ€Throughput Experimentation and Selfâ€Driving Laboratories Optimize Multicomponent Systems (Adv. Mater. 14/2020). Advanced Materials, 2020, 32, 2070110.	21.0	2
9	From Absorption Spectra to Charge Transfer in Nanoaggregates of Oligomers with Machine Learning. ACS Nano, 2020, 14, 6589-6598.	14.6	12
10	ChemOS: An orchestration software to democratize autonomous discovery. PLoS ONE, 2020, 15, e0229862.	2.5	77
11	Interface Molecular Engineering for Laminated Monolithic Perovskite/Silicon Tandem Solar Cells with 80.4% Fill Factor. Advanced Functional Materials, 2019, 29, 1901476.	14.9	43
12	Next-Generation Experimentation with Self-Driving Laboratories. Trends in Chemistry, 2019, 1, 282-291.	8.5	175
13	Azaindenocorannulenes: Synthesis, Properties, and Chirality. Organic Letters, 2019, 21, 3510-3513.	4.6	13
14	A Bayesian Approach to Predict Solubility Parameters. Advanced Theory and Simulations, 2019, 2, 1800069.	2.8	62
15	Accelerating the discovery of materials for clean energy in the era of smart automation. Nature Reviews Materials, 2018, 3, 5-20.	48.7	489
16	1,2,3- versus 1,2-Indeno Ring Fusions Influence Structure Property and Chirality of Corannulene Bowls. Journal of Organic Chemistry, 2018, 83, 3979-3986.	3.2	12
17	Melatonin-directed micellization: a case for tryptophan metabolites and their classical bioisosteres as templates for the self-assembly of bipyridinium-based supramolecular amphiphiles in water. Soft Matter, 2018, 14, 2893-2905.	2.7	8
18	Performance analysis of openâ€source distributed file systems for practical largeâ€scale molecular <i>ab initio,</i> density functional theory, and GW + BSE calculations. International Journal of Quantum Chemistry, 2018, 118, e25392.	2.0	2

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#	Article	IF	CITATIONS
19	Chimera: enabling hierarchy based multi-objective optimization for self-driving laboratories. Chemical Science, 2018, 9, 7642-7655.	7.4	86
20	Phoenics: A Bayesian Optimizer for Chemistry. ACS Central Science, 2018, 4, 1134-1145.	11.3	215
21	ChemOS: Orchestrating autonomous experimentation. Science Robotics, 2018, 3, .	17.6	113
22	Indenocorannulene-Based Materials: Effect of Solid-State Packing and Intermolecular Interactions on Optoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 1220-1234.	3.1	17
23	[3+3] Cyclocondensation of Disubstituted Biphenyl Dialdehydes: Access to Inherently Luminescent and Optically Active Hexa-substituted <i>C</i> ₃ -Symmetric and Asymmetric Trianglimine Macrocycles. Journal of Organic Chemistry, 2017, 82, 2472-2480.	3.2	19
24	Diindenocorannulenes: Curved Aromatics Blending Bowlâ€inâ€Bowl Assembly and Nanocarbon Material Properties. European Journal of Organic Chemistry, 2017, 2017, 2801-2805.	2.4	11
25	Dispersion-Corrected Spin-Component-Scaled Double-Hybrid Density Functional Theory: Implementation and Performance for Non-covalent Interactions. Journal of Chemical Theory and Computation, 2017, 13, 2650-2666.	5.3	8
26	General optimization procedure towards the design of a new family of minimal parameter spin-component-scaled double-hybrid density functional theory. Physical Chemistry Chemical Physics, 2017, 19, 26191-26200.	2.8	20
27	Pentaindenocorannulene: Properties, Assemblies, and C ₆₀ Complex. Angewandte Chemie - International Edition, 2016, 55, 14648-14652.	13.8	44
28	Pentaindenocorannulene: Properties, Assemblies, and C ₆₀ Complex. Angewandte Chemie, 2016, 128, 14868-14872.	2.0	25
29	Toward Accurate Adsorption Energetics on Clay Surfaces. Journal of Physical Chemistry C, 2016, 120, 26402-26413.	3.1	30
30	Kinetics of the Regeneration by lodide of Dye Sensitizers Adsorbed on Mesoporous Titania. Journal of Physical Chemistry C, 2014, 118, 17108-17115.	3.1	26
31	From 4T to 2T solution processed silicon/perovskite tandems solar cells. , 0, , .		0