

Jean-Michel Savant

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

3,532
citations

623734

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940533

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17
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docs citations

17
times ranked

4592
citing authors

#	ARTICLE	IF	CITATIONS
1	A Local Proton Source Enhances CO ₂ Electroreduction to CO by a Molecular Fe Catalyst. <i>Science</i> , 2012, 338, 90-94.	12.6	1,075
2	How Do Pseudocapacitors Store Energy? Theoretical Analysis and Experimental Illustration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8649-8658.	8.0	293
3	Current Issues in Molecular Catalysis Illustrated by Iron Porphyrins as Catalysts of the CO ₂ -to-CO Electrochemical Conversion. <i>Accounts of Chemical Research</i> , 2015, 48, 2996-3006.	15.6	279
4	Concerted Proton ⁺ Electron Transfers: Electrochemical and Related Approaches. <i>Accounts of Chemical Research</i> , 2010, 43, 1019-1029.	15.6	240
5	Ultraefficient homogeneous catalyst for the CO ₂ -to-CO electrochemical conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14990-14994.	7.1	236
6	Proton-Coupled Electron Transfer Cleavage of Heavy-Atom Bonds in Electrocatalytic Processes. Cleavage of a C ⁺ O Bond in the Catalyzed Electrochemical Reduction of CO ₂ . <i>Journal of the American Chemical Society</i> , 2013, 135, 9023-9031.	13.7	209
7	Pendant Acid ⁻ Base Groups in Molecular Catalysts: H-Bond Promoters or Proton Relays? Mechanisms of the Conversion of CO ₂ to CO by Electrogenerated Iron(0)Porphyrins Bearing Prepositioned Phenol Functionalities. <i>Journal of the American Chemical Society</i> , 2014, 136, 11821-11829.	13.7	209
8	Conduction and Reactivity in Heterogeneous-Molecular Catalysis: New Insights in Water Oxidation Catalysis by Phosphate Cobalt Oxide Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 5615-5622.	13.7	100
9	Energy storage: pseudocapacitance in prospect. <i>Chemical Science</i> , 2019, 10, 5656-5666.	7.4	99
10	Adiabatic and Non-adiabatic Concerted Proton ⁺ Electron Transfers. Temperature Effects in the Oxidation of Intramolecularly Hydrogen-Bonded Phenols. <i>Journal of the American Chemical Society</i> , 2007, 129, 9953-9963.	13.7	98
11	Proton Relays in Molecular Catalysis of Electrochemical Reactions: Origin and Limitations of the Boosting Effect. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2125-2128.	13.8	48
12	Breaking Bonds with Electrons and Protons. Models and Examples. <i>Accounts of Chemical Research</i> , 2014, 47, 271-280.	15.6	47
13	Why Are Proton Transfers at Carbon Slow? Self-Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2004, 126, 14787-14795.	13.7	25
14	Hydrogen and proton exchange at carbon. Imbalanced transition state and mechanism crossover. <i>Chemical Science</i> , 2020, 11, 1006-1010.	7.4	19
15	Proton Relays in Molecular Catalysis of Electrochemical Reactions. <i>Angewandte Chemie</i> , 2018, 131, 2147.	2.0	7
16	Ohmic drop correction in electrochemical techniques. Multiple potential step chronoamperometry at the test bench. <i>Energy Storage Materials</i> , 2020, 24, 1-3.	18.0	6