

# Mauricio A Melo Jr

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1089425/publications.pdf>

Version: 2024-02-01

25  
papers

622  
citations

566801

15  
h-index

642321

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1058  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel nanocomposite based on TiO <sub>2</sub> /Cu <sub>2</sub> O/reduced graphene oxide with enhanced solar-light-driven photocatalytic activity. Applied Surface Science, 2015, 324, 419-431.	3.1	76
2	Surface Photovoltage Measurements on a Particle Tandem Photocatalyst for Overall Water Splitting. Nano Letters, 2018, 18, 805-810.	4.5	69
3	Use of surface photovoltage spectroscopy to probe energy levels and charge carrier dynamics in transition metal (Ni, Cu, Fe, Mn, Rh) doped SrTiO <sub>3</sub> photocatalysts for H <sub>2</sub> evolution from water. Journal of Materials Chemistry A, 2018, 6, 5774-5781.	5.2	66
4	Preparação de nanopartículas de prata e ouro: um método simples para a introdução da nanociência em laboratório de ensino. Química Nova, 2012, 35, 1872-1878.	0.3	44
5	Boosting the solar-light-driven methanol production through CO <sub>2</sub> photoreduction by loading Cu <sub>2</sub> O on TiO <sub>2</sub> -pillared K <sub>2</sub> Ti <sub>4</sub> O <sub>9</sub> . Microporous and Mesoporous Materials, 2016, 234, 1-11.	2.2	37
6	Role of Cocatalysts on Hematite Photoanodes in Photoelectrocatalytic Water Splitting: Challenges and Future Perspectives. ChemCatChem, 2020, 12, 3156-3169.	1.8	35
7	Modified coupling agents based on thiourea, immobilized onto silica. Thermodynamics of copper adsorption. Surface Science, 2009, 603, 2200-2206.	0.8	32
8	Enhancing the solar water splitting activity of TiO <sub>2</sub> nanotube-array photoanode by surface coating with La-doped SrTiO <sub>3</sub> . Solar Energy Materials and Solar Cells, 2020, 208, 110428.	3.0	28
9	Degradation mechanisms in mixed-cation and mixed-halide Cs <sub>x</sub> FA <sub>1-x</sub> Pb(Br <sub>y</sub> I <sub>1-y</sub> ) <sub>3</sub> perovskite films under ambient conditions. Journal of Materials Chemistry A, 2020, 8, 9302-9312.	5.2	26
10	Novel talc-like nickel phyllosilicates functionalized with ethanolamine and diethanolamine. Applied Clay Science, 2008, 42, 130-136.	2.6	25
11	Defect States Control Effective Band Gap and Photochemistry of Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2018, 10, 27195-27204.	4.0	24
12	Light Intensity Dependence of Photochemical Charge Separation in the BiVO <sub>4</sub> /Ru-SrTiO <sub>3</sub> :Rh Direct Contact Tandem Photocatalyst for Overall Water Splitting. Journal of Physical Chemistry C, 2020, 124, 9724-9733.	1.5	22
13	Inorganic-organic hybrids presenting high basic center content: SBA-15 incorporation, toxic metals sorption and energetic behavior. Materials Research Bulletin, 2013, 48, 1045-1056.	2.7	21
14	Tailoring hematite/FTO interfaces: New horizons for spin-coated hematite photoanodes targeting water splitting. Materials Letters, 2019, 254, 218-221.	1.3	20
15	Pseudobrookite Fe <sub>2</sub> TiO <sub>5</sub> Nanoparticles Loaded with Earth-Abundant Nanosized NiO and Co <sub>3</sub> O <sub>4</sub> Cocatalysts for Photocatalytic O <sub>2</sub> Evolution via Solar Water Splitting. ACS Applied Nano Materials, 2020, 3, 9303-9317.	2.4	17
16	Useful aminoalcohol molecules incorporated in an epoxide silylating agent for silica organofunctionalization and thermodynamics of copper removal. New Journal of Chemistry, 2009, 33, 1038.	1.4	15
17	Pillaring and NiO <sub>x</sub> co-catalyst loading as alternatives for the photoactivity enhancement of K <sub>2</sub> Ti <sub>4</sub> O <sub>9</sub> towards water splitting. Sustainable Energy and Fuels, 2018, 2, 958-967.	2.5	13
18	The influence of the leaving iodine atom on phyllosilicate syntheses and useful application in toxic metal removal with favorable energetic effects. RSC Advances, 2014, 4, 41028-41038.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Combined Experimental and Computational Investigation of the Fluorescence Quenching of Riboflavin by Cinnamic Alcohol Chemisorbed on Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15348-15355.	1.5	8
20	Challenges and prospects about the graphene role in the design of photoelectrodes for sunlight-driven water splitting. <i>RSC Advances</i> , 2021, 11, 14374-14398.	1.7	8
21	Photocatalytic Water Splitting by Suspended Semiconductor Particles. , 2018, , 107-140.		7
22	Hematite Nanorods Photoanodes Decorated by Cobalt Hexacyanoferrate: The Role of Mixed Oxidized States on the Enhancement of Photoelectrochemical Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 10097-10107.	2.5	7
23	SOLAR CELLS SENSITIZED WITH NATURAL DYES: AN INTRODUCTORY EXPERIMENT ABOUT SOLAR ENERGY FOR UNDERGRADUATE STUDENTS. <i>Quimica Nova</i> , 2015, , .	0.3	6
24	Binary Transition Metal NiFeO <sub>x</sub> and CoFeO <sub>x</sub> Cocatalysts Boost the Photodriven Water Oxidation over Fe <sub>2</sub> TiO <sub>5</sub> Nanoparticles. <i>ChemNanoMat</i> , 2022, 8, .	1.5	6
25	Photocatalytic Performance of Ta <sub>2</sub> O <sub>5</sub> /BiVO <sub>4</sub> Heterojunction for Hydrogen Production and Methylene Blue Photodegradation. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0