

# Gustavo de Miguel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1731705/publications.pdf>

Version: 2024-02-01

68  
papers

2,434  
citations

236612

25  
h-index

205818

48  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. <i>Nature Energy</i> , 2017, 2, 972-979.	19.8	445
2	Benign Design Solventless Mechanochemical Synthesis of Three-, Two-, and One-Dimensional Hybrid Perovskites. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14972-14977.	7.2	142
3	[2]Catenanes Decorated with Porphyrin and [60]Fullerene Groups: Design, Convergent Synthesis, and Photoinduced Processes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3847-3861.	6.6	121
4	Triazole Bridges as Versatile Linkers in Electron Donor-Acceptor Conjugates. <i>Journal of the American Chemical Society</i> , 2011, 133, 13036-13054.	6.6	109
5	Fully Air-Processed Dynamic Hot-Air-Assisted M:CsPbI <sub>2</sub> Br (M: Eu <sup>2+</sup> , In <sup>3+</sup> ) for Stable Inorganic Perovskite Solar Cells. <i>Matter</i> , 2021, 4, 635-653.	5.0	109
6	Synthesis, Characterization, and Photoinduced Electron Transfer Processes of Orthogonal Ruthenium Phthalocyanine- <sup>~</sup> Fullerene Assemblies. <i>Journal of the American Chemical Society</i> , 2009, 131, 10484-10496.	6.6	105
7	Catalyzed Microwave-Assisted Preparation of Carbon Quantum Dots from Lignocellulosic Residues. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7200-7205.	3.2	88
8	Alternative Perovskites for Photovoltaics. <i>Advanced Energy Materials</i> , 2018, 8, 1703120.	10.2	85
9	Surface passivation of perovskite layers using heterocyclic halides: Improved photovoltaic properties and intrinsic stability. <i>Nano Energy</i> , 2018, 50, 220-228.	8.2	79
10	Activating Multistep Charge-Transfer Processes in Fullerene-Subphthalocyanine-Ferrocene Molecular Hybrids as a Function of $\pi$ - $\pi$ Orbital Overlap. <i>Journal of the American Chemical Society</i> , 2010, 132, 16488-16500.	6.6	78
11	Mechanochemical synthesis of three double perovskites: Cs <sub>2</sub> AgBiBr <sub>6</sub> , (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> TlBiBr <sub>6</sub> and Cs <sub>2</sub> AgSbBr <sub>6</sub> . <i>Nanoscale</i> , 2019, 11, 16650-16657.	2.8	65
12	Photophysics of H- and J-Aggregates of Indole-Based Squaraines in Solid State. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9379-9389.	1.5	62
13	Dendritic Porphyrin-Fullerene Conjugates: Efficient Light Harvesting and Charge-Transfer Events. <i>Chemistry - A European Journal</i> , 2009, 15, 12223-12233.	1.7	54
14	Topological and Conformational Effects on Electron Transfer Dynamics in Porphyrin-[60]Fullerene Interlocked Systems. <i>Chemistry of Materials</i> , 2012, 24, 2472-2485.	3.2	43
15	Femto- to Millisecond Photophysical Characterization of Indole-Based Squaraines Adsorbed on TiO <sub>2</sub> Nanoparticle Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12137-12148.	1.5	39
16	Synthesis of carbon-based fluorescent polymers driven by catalytically active magnetic bioconjugates. <i>Green Chemistry</i> , 2018, 20, 225-229.	4.6	34
17	Real-Time Photodynamics of Squaraine-Based Dye-Sensitized Solar Cells with Iodide and Cobalt Electrolytes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11906-11919.	1.5	33
18	Control over Charge Transfer through Molecular Wires by Temperature and Chemical Structure Modifications. <i>ACS Nano</i> , 2010, 4, 6449-6462.	7.3	32

#	ARTICLE	IF	CITATIONS
19	Effects of Fe <sup>3+</sup> substitution on Zn-Al layered double hydroxides for enhanced NO photochemical abatement. <i>Chemical Engineering Journal</i> , 2020, 387, 124110.	6.6	30
20	J-Aggregation of a Water-Soluble Tetracationic Porphyrin in Mixed LB Films with a Calix[8]arene Carboxylic Acid Derivative. <i>Langmuir</i> , 2007, 23, 3794-3801.	1.6	28
21	Host-Guest Complexation of [60]Fullerenes and Porphyrins Enabled by "Click Chemistry". <i>Chemistry - A European Journal</i> , 2013, 19, 11374-11381.	1.7	28
22	7,7-Diaza-isoindigo: a novel building block for organic electronics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1208-1214.	2.7	28
23	Relaxing the Goldschmidt Tolerance Factor: Sizable Incorporation of the Guanidinium Cation into a Two-Dimensional Ruddlesden-Popper Perovskite. <i>Chemistry of Materials</i> , 2020, 32, 4024-4037.	3.2	28
24	Convergent Synthesis and Photoinduced Processes in Multi-Chromophoric Rotaxanes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14408-14419.	1.2	26
25	Cr <sup>3+</sup> substituted Zn-Al layered double hydroxides as UV-Vis light photocatalysts for NO gas removal from the urban environment. <i>Science of the Total Environment</i> , 2020, 706, 136009.	3.9	26
26	Conformational Changes of a Calix[8]arene Derivative at the Air-Water Interface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3998-4006.	1.2	24
27	Femto to millisecond observations of indole-based squaraine molecules photodynamics in solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1796-1805.	1.3	23
28	Relating the Photodynamics of Squaraine-Based Dye-Sensitized Solar Cells to the Molecular Structure of the Sensitizers and to the Presence of Additives. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22157-22168.	1.5	23
29	Soret emission from water-soluble porphyrin thin films: effect on the electroluminescence response. <i>Journal of Materials Chemistry</i> , 2009, 19, 4255.	6.7	21
30	Precise Control of Intramolecular Charge Transport: The Interplay of Distance and Conformational Effects. <i>Chemistry - A European Journal</i> , 2013, 19, 7575-7586.	1.7	21
31	Improvement of optical gas sensing using LB films containing a water insoluble porphyrin organized in a calixarene matrix. <i>Journal of Materials Chemistry</i> , 2007, 17, 2914-2920.	6.7	20
32	Electron Donor-Acceptor Interactions in Regioselectively Synthesized exTTF <sub>2</sub> -C <sub>70</sub> (CF <sub>3</sub> ) <sub>10</sub> Dyads. <i>Chemistry - A European Journal</i> , 2010, 16, 5343-5353.	1.7	20
33	Dis-aggregation of an insoluble porphyrin in a calixarene matrix: characterization of aggregate modes by extended dipole model. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1569.	1.3	19
34	Effect of the Molecular Methylene Blue Aggregation on the Mesoscopic Domain Morphology in Mixed Monolayers with Dimyristoyl-Phosphatidic Acid. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5711-5720.	1.5	19
35	Tunable Soret-Band Splitting of an Amphiphilic Porphyrin by Surface Pressure. <i>ChemPhysChem</i> , 2008, 9, 1511-1513.	1.0	18
36	J-aggregation of a sulfonated amphiphilic porphyrin at the air-water interface as a function of pH. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 775-782.	5.0	18

#	ARTICLE	IF	CITATIONS
37	Benign Design Solventless Mechanochemical Synthesis of Three-, Two-, and One-Dimensional Hybrid Perovskites. <i>Angewandte Chemie</i> , 2016, 128, 15196-15201.	1.6	18
38	Photocatalytic Production of Vanillin over CeO <sub>2</sub> and ZrO <sub>2</sub> Modified Biomass-Templated Titania. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17085-17093.	1.8	18
39	Characterization of nanostructures fabricated with two-beam DLW lithography using STED microscopy. <i>Optical Materials Express</i> , 2016, 6, 3169.	1.6	16
40	Mechanochemically designed bismuth-based halide perovskites for efficient photocatalytic oxidation of vanillyl alcohol. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11298-11305.	5.2	16
41	Self-Assembling Azaindole Organogel for Organic Light-Emitting Devices (OLEDs). <i>Advanced Functional Materials</i> , 2017, 27, 1702176.	7.8	15
42	Molecular organization of a water-insoluble iridium(III) complex in mixed monolayers. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 278-286.	5.0	14
43	UV-Vis Reflection-Absorption Spectroscopy at Air-Liquid Interfaces. <i>Advances in Colloid and Interface Science</i> , 2015, 225, 134-145.	7.0	14
44	Towards the photophysical studies of humin by-products. <i>Chemical Communications</i> , 2017, 53, 7015-7017.	2.2	14
45	Mechanochemical synthesis of one-dimensional (1D) hybrid perovskites incorporating polycyclic aromatic spacers: highly fluorescent cation-based materials. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7677-7682.	2.7	14
46	Insight into the role of copper in the promoted photocatalytic removal of NO using Zn <sub>2-x</sub> Cu <sub>x</sub> Cr-CO <sub>3</sub> layered double hydroxide. <i>Chemosphere</i> , 2021, 275, 130030.	4.2	14
47	5,10-Dihydrobenzo[ <i>a</i> ]indolo[2,3- <i>c</i> ]carbazoles as Novel OLED Emitters. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1400-1411.	1.2	13
48	Aqueous miscible organic solvent treated NiTi layered double hydroxide De-NO <sub>x</sub> photocatalysts. <i>Chemical Engineering Journal</i> , 2022, 429, 132361.	6.6	11
49	Use of LDH- chromate adsorption co-product as an air purification photocatalyst. <i>Chemosphere</i> , 2022, 286, 131812.	4.2	11
50	Segregation of lipid in Ir-dye/DMPA mixed monolayers as strategy to fabricate 2D supramolecular nanostructures at the air-water interface. <i>Journal of Materials Chemistry</i> , 2008, 18, 1681.	6.7	9
51	20 axial control in 25D polymerized structures fabricated with DLW lithography. <i>Optics Express</i> , 2015, 23, 24850.	1.7	9
52	Simple Donor-Acceptor Luminogen Based on an Azaindole Derivative as Solid-State Emitter for Organic Light-Emitting Devices. <i>ACS Energy Letters</i> , 2017, 2, 2653-2658.	8.8	9
53	Bipolar luminescent azaindole derivative exhibiting aggregation-induced emission for non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1222-1227.	2.7	9
54	Site Cation Engineering in 2D Ruddlesden-Popper (BA) <sub>2</sub> (MA) <sub>1-x</sub> (A <sub>x</sub> ) <sub>2</sub> Pb <sub>3</sub> I <sub>10</sub> Perovskite Films. <i>Advanced Optical Materials</i> , 2021, 9, 2100114.	3.6	9

#	ARTICLE	IF	CITATIONS
55	Improving the Spatial Resolution in Direct Laser Writing Lithography by Using a Reversible Cationic Photoinitiator. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16970-16977.	1.5	8
56	Amphiphilic polymers for aggregation-induced emission at air/liquid interfaces. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 324-331.	5.0	8
57	Oxygen storage/release in cobalt porphyrin electrodeposited films. <i>Electrochimica Acta</i> , 2009, 54, 1791-1797.	2.6	7
58	Tenfold increase in efficiency from a reference blue OLED. <i>Journal of Luminescence</i> , 2018, 199, 13-18.	1.5	6
59	Insight into the Role of Guanidinium and Cesium in Triple Cation Lead Halide Perovskites. <i>Solar Rrl</i> , 2021, 5, 2100586.	3.1	6
60	Controlling the molecular organization of porphyrins by hosting in amphiphilic matrix. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 597-605.	0.4	5
61	Selective fluorescence functionalization of dye-doped polymerized structures fabricated by direct laser writing (DLW) lithography. <i>Nanoscale</i> , 2015, 7, 20164-20170.	2.8	5
62	Linewidth and Writing Resolution. , 2016, , 190-220.		5
63	Reversible binding of molecular dioxygen to CoTSPP electrodeposited films from aqueous basic media. <i>Electrochemistry Communications</i> , 2006, 8, 638-642.	2.3	4
64	A New Efficient Implementation of 2PE-STED Microscopy. <i>Biophysical Journal</i> , 2014, 106, 605a.	0.2	1
65	Aggregation and structural study of the monolayers formed by an amphiphilic thiapentacarbocyanine. <i>RSC Advances</i> , 2015, 5, 32227-32238.	1.7	1
66	Surface energy transfer in hybrid halide perovskite/plasmonic Au nanoparticle composites. <i>Nanoscale</i> , 2021, 13, 14221-14227.	2.8	1
67	Linewidth and writing resolution. , 2020, , 351-384.		0
68	Synthesis and photophysical studies of an indigo derivative: N-octyl-7,7-diazaindigo. <i>RSC Advances</i> , 2020, 10, 42014-42020.	1.7	0