

# Maria Luisa Marin

## List of Publications by Year in descending order

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91  
papers

2,199  
citations

304743

22  
h-index

265206

42  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2988  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Photocatalysts for the Oxidation of Pollutants and Model Compounds. <i>Chemical Reviews</i> , 2012, 112, 1710-1750.	47.7	357
2	Photochemical Strategies for the Synthesis of Gold Nanoparticles from Au(III) and Au(I) Using Photoinduced Free Radical Generation. <i>Journal of the American Chemical Society</i> , 2008, 130, 16572-16584.	13.7	162
3	Photoreactivity of the Nonsteroidal Anti-inflammatory 2-Arylpropionic Acids with Photosensitizing Side Effects. <i>Photochemistry and Photobiology</i> , 2001, 74, 637.	2.5	145
4	Copper nanoparticle heterogeneous catalytic "click" cycloaddition confirmed by single-molecule spectroscopy. <i>Nature Communications</i> , 2014, 5, 4612.	12.8	121
5	Photochemical routes to silver and gold nanoparticles. <i>Pure and Applied Chemistry</i> , 2009, 81, 635-647.	1.9	90
6	Catalyst Decomposition during Olefin Metathesis Yields Isomerization-Active Ruthenium Nanoparticles. <i>ChemCatChem</i> , 2016, 8, 2446-2449.	3.7	54
7	Mild synthesis of mesoporous silica supported ruthenium nanoparticles as heterogeneous catalysts in oxidative Wittig coupling reactions. <i>Catalysis Science and Technology</i> , 2014, 4, 435-440.	4.1	42
8	Synthesis, acid properties and catalysis by niobium oxide nanostructured materials. <i>Catalysis Science and Technology</i> , 2014, 4, 3044-3052.	4.1	42
9	Metal-Free Photocatalytic Reductive Dehalogenation Using Visible Light: A Time-Resolved Mechanistic Study. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2164-2169.	2.4	40
10	Superior visible light-mediated catalytic activity of a novel N-doped, Fe <sub>3</sub> O <sub>4</sub> -incorporating MgO nanosheet in presence of PMS: Imidacloprid degradation and implications on simultaneous bacterial inactivation. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121732.	20.2	38
11	Complexes between Fluorescent Cholic Acid Derivatives and Human Serum Albumin. A Photophysical Approach To Investigate the Binding Behavior. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4710-4716.	2.6	35
12	Spongian pentacyclic diterpenes. Stereoselective synthesis of (-)-dendrillol-1. <i>Journal of Organic Chemistry</i> , 1992, 57, 6861-6869.	3.2	33
13	A continuous-flow catalytic process with natural hematite-alginate beads for effective water decontamination and disinfection: Peroxymonosulfate activation leading to dominant sulfate radical and minor non-radical pathways. <i>Chemical Engineering Journal</i> , 2021, 411, 127738.	12.7	32
14	Glass wool: a novel support for heterogeneous catalysis. <i>Chemical Science</i> , 2018, 9, 6844-6852.	7.4	30
15	Photophysical Probes To Assess the Potential of Cholic Acid Aggregates as Drug Carriers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10213-10218.	2.6	28
16	Abatement of methidathion and carbaryl from aqueous solutions using organic photocatalysts. <i>Catalysis Today</i> , 2009, 144, 106-111.	4.4	27
17	A Photophysical and Photochemical Study of 6-Methoxy-2-naphthylacetic Acid, the Major Metabolite of the Phototoxic Nonsteroidal Antiinflammatory Drug Nabumetone. <i>Photochemistry and Photobiology</i> , 2000, 71, 173.	2.5	26
18	Pyrylium salt-photosensitized degradation of phenolic contaminants present in olive oil wastewater with solar light Part III. Tyrosol and p-hydroxyphenylacetic acid. <i>Applied Catalysis B: Environmental</i> , 2002, 35, 167-174.	20.2	26

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19	Dansyl Derivatives of Cholic Acid as Tools to Build Speciation Diagrams for Sodium Cholate Aggregation. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 782-785.	4.6	26
20	A photophysical approach to investigate the photooxidation mechanism of pesticides: Hydroxyl radical versus electron transfer. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 48-53.	20.2	25
21	A mechanistic study on the oxidative photodegradation of 2,6-dichlorodiphenylamine-derived drugs: Photo-Fenton versus photocatalysis with a triphenylpyrylium salt. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 412-418.	20.2	24
22	Tiaprofenic Acid-photosensitized Damage to Nucleic Acids: A Mechanistic Study Using Complementary in vitro Approaches. <i>Photochemistry and Photobiology</i> , 2000, 71, 499.	2.5	23
23	Sepiolites as supporting material for organic sensitizers employed in heterogeneous solar photocatalysis. <i>Journal of Molecular Catalysis A</i> , 2007, 271, 221-226.	4.8	23
24	Dansyl-Labeled Cholic Acid as a Tool To Build Speciation Diagrams for the Aggregation of Bile Acids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14776-14780.	2.6	23
25	Spongian pentacyclic diterpenes. Stereoselective synthesis of aplyroseol-1, aplyroseol-2 and deacetylaplyroseol-2. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993, , 1861-1867.	0.9	22
26	Podocarpane-to-spongian skeleton conversion. Synthesis of (+)-isoagatholactone and (â€“)â€”spongia-13(16),14-diene. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 2193-2199.	0.9	22
27	Enhanced Photodegradation of Synthetic Dyes Mediated by Ag <sub>3</sub> PO <sub>4</sub> -Based Semiconductors under Visible Light Irradiation. <i>Catalysts</i> , 2020, 10, 774.	3.5	21
28	A mechanistic study on photocatalysis by thiapyrylium salts. Photodegradation of dimethoate, alachlor and pyrimethanil under simulated sunlight. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 208-213.	20.2	20
29	â€”From the mole to the moleculeâ€™: ruthenium catalyzed nitroarene reduction studied with â€”benchâ€™, high-throughput and single molecule fluorescence techniques. <i>Catalysis Science and Technology</i> , 2014, 4, 1989-1996.	4.1	20
30	Type I vs Type II photodegradation of pollutants. <i>Catalysis Today</i> , 2018, 313, 161-166.	4.4	20
31	Fluorescent Benzofurazan-Cholic Acid Conjugates for inâ€”vitro Assessment of Bile Acid Uptake and Its Modulation by Drugs. <i>ChemMedChem</i> , 2009, 4, 466-472.	3.2	19
32	Unconjugated bile salts shuttle through hepatocyte peroxisomes for taurine conjugation. <i>Hepatology</i> , 2010, 52, 2167-2176.	7.3	19
33	Dansyl Labeling To Modulate the Relative Affinity of Bile Acids for the Binding Sites of Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10518-10524.	2.6	19
34	Involvement of triplet excited states in the electron transfer photodegradation of cinnamic acids using pyrylium and thiapyrylium salts as photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 848.	2.9	18
35	A novel synthetic approach to tyrosine dimers based on pterin photosensitization. <i>Dyes and Pigments</i> , 2017, 147, 67-74.	3.7	18
36	Synthesis of new, UV-photoactive dansyl derivatives for flow cytometric studies on bile acid uptake. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4973.	2.8	17

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37	Photocatalytic Treatment of Cork Wastewater Pollutants. Degradation of Gallic Acid and Trichloroanisoole using Triphenyl(thia)pyrylium salts. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 433-438.	20.2	17
38	Heterogeneous riboflavin-based photocatalyst for pollutant oxidation through electron transfer processes. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120497.	20.2	17
39	A Laser Flash Photolysis and Pulse Radiolysis Study of Primary Photochemical Processes of Flumequine. <i>Photochemistry and Photobiology</i> , 2000, 72, 451.	2.5	17
40	Photochemical synthesis of biocompatible and antibacterial silver nanoparticles embedded within polyurethane polymers. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 661-664.	2.9	16
41	First Diastereoselective Synthesis of (R)-Methyl Thyrsiflorin A, (R)-Methyl Thyrsiflorin B Acetate, and (R)-Thyrsiflorin C. <i>Journal of Organic Chemistry</i> , 2000, 65, 840-846.	3.2	15
42	Singlet oxygen production by pyrano and furano 1,4-naphthoquinones in non-aqueous medium. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1201-1209.	2.9	15
43	Influence of Drug Encapsulation within Mixed Micelles on the Excited State Dynamics and Accessibility to Ionic Quenchers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9327-9332.	2.6	14
44	Two-channel dansyl/tryptophan emitters with a cholic acid bridge as reporters for local hydrophobicity within supramolecular systems based on bile salts. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8499-8504.	2.8	14
45	Mechanistic insights into the Nb <sub>2</sub> O <sub>5</sub> and niobium phosphate catalyzed in situ condensation of a fluorescent halochromic assembly. <i>Catalysis Science and Technology</i> , 2015, 5, 169-175.	4.1	14
46	Impact of chirality on the photoinduced charge transfer in linked systems containing naproxen enantiomers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12733-12741.	2.8	14
47	Synthesis of spongian diterpenes: (R)-spongian-16-oxo-17-al and (R)-acetyldendrillol-1. <i>Tetrahedron Letters</i> , 2001, 42, 1669-1671.	1.4	13
48	Reactivity of Nucleosides with a Hydroxyl Radical in Non-aqueous Medium. <i>Chemistry - A European Journal</i> , 2012, 18, 8024-8027.	3.3	13
49	New Photoactive Compounds To Probe Cholic Acid and Cholesterol inside Mixed Micelles. <i>Organic Letters</i> , 2013, 15, 298-301.	4.6	13
50	Time-resolved kinetic assessment of the role of singlet and triplet excited states in the photocatalytic treatment of pollutants at different concentrations. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 381-388.	20.2	13
51	Direct detection of the triphenylpyrylium-derived short-lived intermediates in the photocatalyzed degradation of acetaminophen, acetamidiprid, caffeine and carbamazepine. <i>Journal of Hazardous Materials</i> , 2018, 356, 91-97.	12.4	13
52	2,4,6-Triphenylthiapyrylium cation as homogeneous solar photocatalyst. <i>Catalysis Today</i> , 2007, 129, 37-42.	4.4	12
53	Photosensitized Thymine Dimerization via Delocalized Triplet Excited States. <i>Chemistry - A European Journal</i> , 2015, 21, 17051-17056.	3.3	12
54	Photocatalytic degradation of drugs in water mediated by acetylated riboflavin and visible light: A mechanistic study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 221, 112250.	3.8	12

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55	Photocatalytic functionalization for the synthesis of drugs and analogs. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 139-149.	5.9	11
56	Photochemical formation of a fluorescent thymidine-pterin adduct in DNA. <i>Dyes and Pigments</i> , 2019, 160, 624-632.	3.7	11
57	Sulfate radical anion: Laser flash photolysis study and application in water disinfection and decontamination. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121519.	20.2	11
58	Perylene-Grafted Silicas: Mechanistic Study and Applications in Heterogeneous Photoredox Catalysis. <i>Chemistry - A European Journal</i> , 2019, 25, 14928-14934.	3.3	10
59	Mechanistic Insight into the Light-Triggered CuAAC Reaction: Does Any of the Photocatalyst Go?. <i>Journal of Organic Chemistry</i> , 2021, 86, 5832-5844.	3.2	10
60	Spin effects in intramolecular electron transfer in naproxen-N-methylpyrrolidine dyad. <i>Chemical Physics Letters</i> , 2011, 516, 51-55.	2.6	9
61	Photocatalytic degradation of phenolic pollutants using N-methylquinolinium and 9-mesityl-10-methylacridinium salts. <i>Catalysis Today</i> , 2019, 328, 243-251.	4.4	9
62	Synthesis of C-17-functionalized beyerane diterpenes. Synthesis of (â€“) -erythrolyol B, (â€“) -erythrolydiol A and (â€“) -benuol. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 2987-2991.	0.9	8
63	Assessment of enzyme-linked immunosorbent assay for the determination of 2,4,5-TP in water and soil. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 262-268.	3.7	8
64	Stereodifferentiation in fluorescence quenching within cholic acid aggregates. <i>Chemical Communications</i> , 2010, 46, 4965.	4.1	8
65	Spin Chemistry Investigation of Peculiarities of Photoinduced Electron Transfer in Donor-Acceptor Linked System. <i>Applied Magnetic Resonance</i> , 2011, 41, 205-220.	1.2	8
66	Hydroxyl Radical as an Unlikely Key Intermediate in the Photodegradation of Emerging Pollutants. <i>Photochemistry and Photobiology</i> , 2014, 90, 1467-1469.	2.5	8
67	A comprehensive mechanistic study on the visible-light photocatalytic reductive dehalogenation of haloaromatics mediated by Ru(bpy) <sub>3</sub> Cl <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2017, 7, 4852-4858.	4.1	8
68	Photophysical characterization and flow cytometry applications of cholylamidofluorescein, a fluorescent bile acid scaffold. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 860-866.	2.9	7
69	Time-Resolved Fluorescence Study of Exciplex Formation in Diastereomeric Naproxen-Pyrrolidine Dyads. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16206-16211.	2.6	7
70	Radical-mediated dehydrogenation of bile acids by means of hydrogen atom transfer to triplet carbonyls. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2679-2683.	2.8	7
71	Low field photo-CIDNP in the intramolecular electron transfer of naproxen-pyrrolidine dyads. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 901-907.	2.8	7
72	A mechanistic study on the potential of quinolinium salts as photocatalysts for the abatement of chlorinated pollutants. <i>Journal of Hazardous Materials</i> , 2018, 351, 277-284.	12.4	7

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73	A photochemical and theoretical study of the triplet reactivity of furano- and pyrano-1,4-naphthoquinones towards tyrosine and tryptophan derivatives. <i>RSC Advances</i> , 2019, 9, 13386-13397.	3.6	7
74	Generation of the Thymine Triplet State by Through-Bond Energy Transfer. <i>Chemistry - A European Journal</i> , 2019, 25, 7004-7011.	3.3	7
75	First Diastereoselective Synthesis of (-)-Thyrsiflorin A Methyl Ester. <i>Synlett</i> , 1997, 1997, 574-576.	1.8	6
76	Generation of reactive aryl radical intermediates in the reductive photodehalogenation of itraconazole. <i>RSC Advances</i> , 2014, 4, 2687-2693.	3.6	6
77	Photoactive bile salts with critical micellar concentration in the micromolar range. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12976-12982.	2.8	6
78	Stereoselective, Ruthenium-Photocatalyzed Synthesis of 1,2-Diaminotruxinic Bis-amino Acids from 4-Arylidene-5(4H)-oxazolones. <i>Journal of Organic Chemistry</i> , 2022, , .	3.2	6
79	Organic photoredox catalysts for wastewater remediation: Beyond the established advanced oxidation processes. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100296.	5.2	6
80	<sup>1</sup> H and <sup>13</sup> C NMR assignments and conformational analysis of some tetracyclic compounds with a bicyclo[4.2.0]octane ring system. <i>Magnetic Resonance in Chemistry</i> , 1998, 36, 579-586.	1.9	5
81	Degradation of Benzotriazole UV-stabilizers in the presence of organic photosensitizers and visible light: A time-resolved mechanistic study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 230, 112444.	3.8	5
82	<sup>1</sup> H and <sup>13</sup> C NMR assignments and conformational analysis of some podocarpene derivatives. <i>Magnetic Resonance in Chemistry</i> , 2000, 38, 1019-1022.	1.9	4
83	Translocation versus cyclisation in radicals derived from N-3-alkenyl trichloroacetamides. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3180.	2.8	4
84	Tetrahydropyranyl protection and deprotection of alcohols using a niobium-based Brønsted acid catalyst. <i>Canadian Journal of Chemistry</i> , 2016, 94, 712-714.	1.1	4
85	Analyzing the uniqueness of the rate constants calculated from complex kinetic systems: A study of the hydrolysis of cyclohexanecarbonitriles. <i>International Journal of Chemical Kinetics</i> , 1999, 31, 611-626.	1.6	3
86	Catalyst Decomposition during Olefin Metathesis Yields Isomerization-Active Ruthenium Nanoparticles. <i>ChemCatChem</i> , 2016, 8, 2424-2424.	3.7	3
87	“Snorkelling” vs. “diving” in mixed micelles probed by means of a molecular bathymeter. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 10281-10288.	2.8	3
88	Biomimetic photooxidation of noscapine sensitized by a riboflavin derivative in water: The combined role of natural dyes and solar light in environmental remediation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 229, 112415.	3.8	3
89	Assignment of <sup>1</sup> H and <sup>13</sup> C NMR data for (±)-methyl thyrsiflorin A and some scopadulan precursors. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, 414-416.	1.9	2
90	Triplet energy management between two signaling units through cooperative rigid scaffolds. <i>Chemical Communications</i> , 2016, 52, 713-716.	4.1	2

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91	A Time-Resolved Study on the Reactivity of Alcoholic Drinks with the Hydroxyl Radical. <i>Molecules</i> , 2019, 24, 234.	3.8	2