

# Mã;rio J F Calvete

## List of Publications by Year in descending order

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96  
papers

3,498  
citations

136740

32  
h-index

149479

56  
g-index

106  
all docs

106  
docs citations

106  
times ranked

3827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Optical Materials for the Smart Filtering of Optical Radiation. <i>Chemical Reviews</i> , 2016, 116, 13043-13233.	23.0	472
2	Porphyrins and phthalocyanines as materials for optical limiting. <i>Synthetic Metals</i> , 2004, 141, 231-243.	2.1	417
3	Hybrid materials for heterogeneous photocatalytic degradation of antibiotics. <i>Coordination Chemistry Reviews</i> , 2019, 395, 63-85.	9.5	141
4	Synthesis of binaphthyl based phosphine and phosphite ligands. <i>Chemical Society Reviews</i> , 2013, 42, 6990.	18.7	138
5	Metalloporphyrins: Bioinspired Oxidation Catalysts. <i>ACS Catalysis</i> , 2018, 8, 10784-10808.	5.5	122
6	Immobilized Catalysts for Hydroformylation Reactions: A Versatile Tool for Aldehyde Synthesis. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6309-6320.	1.2	74
7	Conjugating biomaterials with photosensitizers: advances and perspectives for photodynamic antimicrobial chemotherapy. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 445-461.	1.6	72
8	Metal coordinated pyrrole-based macrocycles as contrast agents for magnetic resonance imaging technologies: Synthesis and applications. <i>Coordination Chemistry Reviews</i> , 2017, 333, 82-107.	9.5	66
9	The first example of anomeric glycoconjugation to phthalocyanines. <i>Tetrahedron Letters</i> , 2006, 47, 3283-3286.	0.7	64
10	Inorganic helping organic: recent advances in catalytic heterogeneous oxidations by immobilised tetrapyrrolic macrocycles in micro and mesoporous supports. <i>RSC Advances</i> , 2013, 3, 22774.	1.7	62
11	Metal-based redox-responsive MRI contrast agents. <i>Coordination Chemistry Reviews</i> , 2019, 390, 1-31.	9.5	59
12	Zinc(II) phthalocyanines immobilized in mesoporous silica Al-MCM-41 and their applications in photocatalytic degradation of pesticides. <i>Journal of Hazardous Materials</i> , 2012, 233-234, 79-88.	6.5	54
13	An insight into solvent-free diimide porphyrin reduction: a versatile approach for meso-aryl hydroporphyrin synthesis. <i>Green Chemistry</i> , 2012, 14, 1666.	4.6	50
14	Synthesis of a Bisphthalocyanine and Its Nonlinear Optical Properties. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3499-3509.	1.2	49
15	Self-Healing of Gold Nanoparticles in the Presence of Zinc Phthalocyanines and Their Very Efficient Nonlinear Absorption Performances. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8688-8695.	1.5	46
16	Amphiphilic meso(sulfonate ester fluoroaryl)porphyrins: refining the substituents of porphyrin derivatives for phototherapy and diagnostics. <i>Tetrahedron</i> , 2012, 68, 8767-8772.	1.0	44
17	Ecofriendly Porphyrin Synthesis by using Water under Microwave Irradiation. <i>ChemSusChem</i> , 2014, 7, 2821-2824.	3.6	44
18	Optical detection of amine vapors using ZnTriad porphyrin thin films. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 28-35.	4.0	44

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19	Phthalocyanine Labels for Near-Infrared Fluorescence Imaging of Solid Tumors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4688-4696.	2.9	43
20	Hydrogen Peroxide and Metalloporphyrins in Oxidation Catalysis: Old Dogs with Some New Tricks. <i>ChemCatChem</i> , 2018, 10, 3615-3635.	1.8	42
21	Nonlinear Transmission of a Tetrabrominated Naphthalocyaninato Indium Chloride. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12230-12239.	1.2	39
22	A Binuclear Phthalocyanine Containing Two Different Metals. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 2080-2083.	1.2	38
23	Halogenated meso-phenyl Mn(III) porphyrins as highly efficient catalysts for the synthesis of polycarbonates and cyclic carbonates using carbon dioxide and epoxides. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 489-494.	4.8	38
24	Axial Halogen Ligand Effect on Photophysics and Optical Power Limiting of Some Indium Naphthalocyanines. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3263-3270.	1.1	37
25	Large Two-Photon Absorption Cross Sections of Hemiporphyrines in the Excited State: The Multiphoton Absorption Process of Hemiporphyrines with Different Central Metals. <i>Journal of the American Chemical Society</i> , 2008, 130, 12290-12298.	6.6	37
26	Size and ability do matter! Influence of acidity and pore size on the synthesis of hindered halogenated meso-phenyl porphyrins catalysed by porous solid oxides. <i>Chemical Communications</i> , 2014, 50, 6571-6573.	2.2	37
27	Indium Phthalocyanines with Different Axial Ligands: A Study of the Influence of the Structure on the Photophysics and Optical Limiting Properties. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8515-8522.	1.1	36
28	Photoinactivation of microorganisms with sub-micromolar concentrations of imidazolium metallophthalocyanine salts. <i>European Journal of Medicinal Chemistry</i> , 2019, 184, 111740.	2.6	36
29	Near-infrared absorbing organic materials with nonlinear transmission properties. <i>International Reviews in Physical Chemistry</i> , 2012, 31, 319-366.	0.9	35
30	Phthalocyanines: An Old Dog Can Still Have New (Photo)Tricks!. <i>Molecules</i> , 2021, 26, 2823.	1.7	35
31	Synthesis of New Metalloporphyrin Triads: Efficient and Versatile Tripod Optical Sensor for the Detection of Amines. <i>Inorganic Chemistry</i> , 2011, 50, 7916-7918.	1.9	34
32	Hybrid Metalloporphyrin Magnetic Nanoparticles as Catalysts for Sequential Transformation of Alkenes and CO <sub>2</sub> into Cyclic Carbonates. <i>ChemCatChem</i> , 2018, 10, 2792-2803.	1.8	34
33	Photophysics and Nonlinear Optical Properties of Tetra- and Octabrominated Silicon Naphthalocyanines. <i>Journal of Physical Chemistry A</i> , 2008, 112, 472-480.	1.1	33
34	Tetrabrominated Lead Naphthalocyanine for Optical Power Limiting. <i>Chemistry - A European Journal</i> , 2010, 16, 1212-1220.	1.7	33
35	Metalloporphyrin triads: Synthesis and photochemical characterization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 242, 59-66.	2.0	33
36	Synthesis of <i>meso</i> -substituted porphyrins using sustainable chemical processes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 45-60.	0.4	32

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37	Porphyrin-Loaded Lignin Nanoparticles Against Bacteria: A Photodynamic Antimicrobial Chemotherapy Application. <i>Frontiers in Microbiology</i> , 2020, 11, 606185.	1.5	32
38	Tetrapyrrolic Macrocycles: Potentialities in Medical Imaging Technologies. <i>Current Organic Synthesis</i> , 2014, 11, 127-140.	0.7	32
39	A new glycosidation method through nitrite displacement on substituted nitrobenzenes. <i>Carbohydrate Research</i> , 2007, 342, 440-447.	1.1	31
40	Energy transfer from fluorene-based conjugated polyelectrolytes to on-chain and self-assembled porphyrin units. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1408-1417.	2.5	30
41	Biologically Inspired and Magnetically Recoverable Copper Porphyrinic Catalysts: A Greener Approach for Oxidation of Hydrocarbons with Molecular Oxygen. <i>Advanced Functional Materials</i> , 2016, 26, 3359-3368.	7.8	30
42	Analysis of the nonlinear transmission properties of some naphthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2006, 10, 1165-1171.	0.4	28
43	Synthesis, DFT calculations, linear and nonlinear optical properties of binuclear phthalocyanine gallium chloride. <i>Journal of Molecular Modeling</i> , 2006, 12, 543-550.	0.8	27
44	Demonstration of the optical limiting effect for an hemiporphyrazine. <i>Chemical Communications</i> , 2006, , 2394.	2.2	26
45	Recent developments in the synthesis of homo- and heteroarrays of porphyrins and phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 419-428.	0.4	26
46	The quest for biocompatible phthalocyanines for molecular imaging: Photophysics, relaxometry and cytotoxicity studies. <i>Journal of Inorganic Biochemistry</i> , 2016, 154, 50-59.	1.5	24
47	A biocompatible redox MRI probe based on a Mn(II)/Mn(III) porphyrin. <i>Dalton Transactions</i> , 2019, 48, 3249-3262.	1.6	24
48	Synthesis of a new <sup>18</sup> F labeled porphyrin for potential application in positron emission tomography. In vivo imaging and cellular uptake. <i>RSC Advances</i> , 2015, 5, 99540-99546.	1.7	23
49	Supported metalloporphyrins as reusable catalysts for the degradation of antibiotics: Synthesis, characterization, activity and ecotoxicity studies. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119556.	10.8	23
50	Rhodium(I) N-Heterocyclic Carbene Complexes as Catalysts for Hydroformylation of Olefins: An Overview. <i>Current Organic Synthesis</i> , 2011, 8, 764-775.	0.7	23
51	Octatosylaminophthalocyanine: A reusable chromogenic anion chemosensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 387-394.	4.0	21
52	Unsymmetrical porphyrins: the role of meso-substituents on their physical properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 290-296.	0.4	20
53	Microwave irradiation as a sustainable tool for catalytic carbonylation reactions. <i>Inorganica Chimica Acta</i> , 2017, 455, 364-377.	1.2	20
54	Molecular-based selection of porphyrins towards the sensing of explosives in the gas phase. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 116-124.	4.0	20

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55	Synthesis and Functionalization of Corroles. An Insight on Their Nonlinear Optical Absorption Properties. <i>Current Organic Synthesis</i> , 2014, 11, 29-41.	0.7	20
56	A recyclable hybrid manganese(III) porphyrin magnetic catalyst for selective olefin epoxidation using molecular oxygen. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018, 22, 331-341.	0.4	19
57	Solventless metallation of low melting porphyrins synthesized by the water/microwave method. <i>RSC Advances</i> , 2015, 5, 64902-64910.	1.7	18
58	Synthesis and high ranked NLT properties of new sulfonamide-substituted indium phthalocyanines. <i>Inorganica Chimica Acta</i> , 2010, 363, 3945-3950.	1.2	17
59	Photophysical and Antibacterial Properties of Porphyrins Encapsulated inside Acetylated Lignin Nanoparticles. <i>Antibiotics</i> , 2021, 10, 513.	1.5	17
60	Oxidative Degradation of Pharmaceuticals: The Role of Tetrapyrrole-Based Catalysts. <i>Catalysts</i> , 2021, 11, 1335.	1.6	17
61	Photoacoustic generation of intense and broadband ultrasound pulses with functionalized carbon nanotubes. <i>Nanoscale</i> , 2020, 12, 20831-20839.	2.8	16
62	A Cost-Efficient Method for Unsymmetrical Meso-Aryl Porphyrin Synthesis Using NaY Zeolite as an Inorganic Acid Catalyst. <i>Molecules</i> , 2017, 22, 741.	1.7	15
63	Conjugated macrocyclic materials with photoactivated optical absorption for the control of energy transmission delivered by pulsed radiations. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018, 35, 56-73.	5.6	15
64	Binol derivative ligand immobilized onto silica: Alkyl-cyanohydrin synthesis via sequential hydroformylation/heterogeneous cyanosilylation reactions. <i>Catalysis Today</i> , 2013, 218-219, 99-106.	2.2	13
65	Glycosylated Metal Phthalocyanines. <i>Current Organic Synthesis</i> , 2014, 11, 59-66.	0.7	13
66	Cost-efficient method for unsymmetrical meso-aryl porphyrins and iron oxide-porphyrin hybrids prepared thereof. <i>Dalton Transactions</i> , 2016, 45, 16211-16220.	1.6	13
67	Synthesis of sulfonamide-substituted phthalocyanines. <i>Tetrahedron Letters</i> , 2009, 50, 6882-6885.	0.7	12
68	Routes to synthesis of porphyrins covalently bound to poly(carbazole)s and poly(fluorene)s: Structural and computational studies on oligomers. <i>Journal of Molecular Structure</i> , 2012, 1029, 199-208.	1.8	11
69	Microwave Assisted Reactions of Natural Oils: Transesterification and Hydroformylation/Isomerization as Tools for High Value Compounds. <i>Current Microwave Chemistry</i> , 2015, 2, 53-60.	0.2	11
70	Bioinspired-Metalloporphyrin Magnetic Nanocomposite as a Reusable Catalyst for Synthesis of Diastereomeric ( $\hat{\alpha}$ )-Isopulegol Epoxide: Anticancer Activity Against Human Osteosarcoma Cells (MG-63). <i>Molecules</i> , 2019, 24, 52.	1.7	11
71	Synthesis of a Rigid Fused Porphyrin-Phthalocyanine Hetero-Dyad with Two Different Metals. <i>Current Organic Chemistry</i> , 2013, 17, 1103-1107.	0.9	10
72	Titanium Phthalocyanines with Axial Phenylenevinylens. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3209-3214.	1.2	9

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73	Synthesis and Characterization of New Cross-Linkable Porphyrin-Phthalocyanine and Porphyrin-Phthalocyanine Pentads. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, E202.	1.4	9
74	Synthesis of low melting point porphyrins: A quest for new materials. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 843-854.	0.4	9
75	Porphyrin-Nanodiamond Hybrid Materials: Active, Stable and Reusable Cyclohexene Oxidation Catalysts. <i>Catalysts</i> , 2020, 10, 1402.	1.6	9
76	Supercritical antisolvent precipitation of calcium acetate from eggshells. <i>Journal of Supercritical Fluids</i> , 2020, 163, 104862.	1.6	9
77	Water soluble near infrared dyes based on PEGylated-Tetrapyrrolic macrocycles. <i>Dyes and Pigments</i> , 2021, 195, 109677.	2.0	9
78	Synthesis and characterization of biocompatible bimodal meso-sulfonamide-perfluorophenylporphyrins. <i>Journal of Fluorine Chemistry</i> , 2015, 180, 161-167.	0.9	8
79	Synthesis of Pyrrole-Based Macrocycles as Molecular Probes for Multimodal Imaging Techniques: Recent Trends. <i>Current Organic Synthesis</i> , 2017, 14, .	0.7	8
80	Expeditious Synthesis of Glycosylated Phthalocyanines. <i>Synthesis</i> , 2007, 2007, 2186-2192.	1.2	7
81	Biocompatible ring-deformed indium phthalocyanine label for near-infrared photoacoustic imaging. <i>Inorganica Chimica Acta</i> , 2021, 514, 119993.	1.2	7
82	Synthesis of axially substituted gallium, indium and thallium phthalocyanines with nonlinear optical properties. <i>Arkivoc</i> , 2006, 2006, 77-96.	0.3	7
83	Hydroaminomethylation reaction as powerful tool for preparation of rhodium/phosphine-functionalized nanomaterials. Catalytic evaluation in styrene hydroformylation. <i>Catalysis Today</i> , 2020, 356, 456-463.	2.2	6
84	Immobilization of Rh(I)-N-Xantphos and Fe(II)-C-Scorpionate onto Magnetic Nanoparticles: Reusable Catalytic System for Sequential Hydroformylation/Acetalization. <i>Catalysts</i> , 2021, 11, 608.	1.6	6
85	Multifunctionalization of cyanuric chloride for the stepwise synthesis of potential multimodal imaging chemical entities. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2517-2525.	2.3	4
86	A New Tool in the Quest for Biocompatible Phthalocyanines: Palladium Catalyzed Aminocarbonylation for Amide Substituted Phthalonitriles and Illustrative Phthalocyanines Thereof. <i>Catalysts</i> , 2018, 8, 480.	1.6	3
87	Editorial (Thematic Issue: Tetrapyrrolic Macrocycles: Synthesis and Prospects). <i>Current Organic Synthesis</i> , 2014, 11, 1-2.	0.7	2
88	Binaphthyl Based Molecules for Asymmetric Organocatalytic Aldol Reactions: Recent Developments from a Successful Record. <i>Mini-Reviews in Organic Chemistry</i> , 2014, 11, 129-140.	0.6	2
89	Chlorins in Photodynamic Therapy - Synthesis and applications. <i>Revista Virtual De Quimica</i> , 2009, 1, .	0.1	2
90	Molecular School: a pre-university chemistry school. <i>Chemistry Teacher International</i> , 2021, 3, 257-268.	0.9	1

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91	Tervalent phosphorus acid derivatives. Organophosphorus Chemistry, 2018, , 96-156.	0.3	1
92	Solar energy: Past, present... a whole future. Revista Virtual De Quimica, 2010, 2, .	0.1	1
93	Chapter 2. Tervalent phosphorus acid derivatives. Organophosphorus Chemistry, 2015, , 56-103.	0.3	0
94	Tervalent phosphorus acid derivatives. Organophosphorus Chemistry, 2016, , 51-98.	0.3	0
95	Symmetrically and Unsymmetrically Substituted Phthalocyanines. , 2008, , 217-225.		0
96	Tervalent phosphorus acid derivatives. Organophosphorus Chemistry, 0, , 52-103.	0.3	0