Mrio J F Calvete

List of Publications by Year in Descending Order

90 papers	2,690 citations	30 h-index	49 g-index
106 ext. papers	3,099 ext. citations	6.1 avg, IF	5.48 L-index

#	Paper	IF	Citations
90	Oxidative Degradation of Pharmaceuticals: The Role of Tetrapyrrole-Based Catalysts. *Catalysts*, **2021**, 11, 1335	4	2
89	Photophysical and Antibacterial Properties of Porphyrins Encapsulated inside Acetylated Lignin Nanoparticles. *Antibiotics*, **2021**, 10,	4.9	4
88	Immobilization of Rh(I)-N-Xantphos and Fe(II)-C-Scorpionate onto Magnetic Nanoparticles: Reusable Catalytic System for Sequential Hydroformylation/Acetalization. *Catalysts*, **2021**, 11, 608	4	1
87	Phthalocyanines: An Old Dog Can Still Have New (Photo)Tricks!. *Molecules*, **2021**, 26,	4.8	10
86	Supported metalloporphyrins as reusable catalysts for the degradation of antibiotics: Synthesis, characterization, activity and ecotoxicity studies. *Applied Catalysis B: Environmental*, **2021**, 282, 119556	21.8	12
85	Biocompatible ring-deformed indium phthalocyanine label for near-infrared photoacoustic imaging. *Inorganica Chimica Acta*, **2021**, 514, 119993	2.7	3
84	Molecular School – a pre-university chemistry school. *Chemistry Teacher International*, **2021**, 3, 257-268	1	1
83	Water soluble near infrared dyes based on PEGylated-Tetrapyrrolic macrocycles. *Dyes and Pigments* , **2021**, 195, 109677	4.6	3
82	Porphyrin–Nanodiamond Hybrid Materials as Active, Stable and Reusable Cyclohexene Oxidation Catalysts. *Catalysts*, **2020**, 10, 1402	4	2
81	Supercritical antisolvent precipitation of calcium acetate from eggshells. *Journal of Supercritical Fluids*, **2020**, 163, 104862	4.2	3
80	Conjugating biomaterials with photosensitizers: advances and perspectives for photodynamic antimicrobial chemotherapy. *Photochemical and Photobiological Sciences*, **2020**, 19, 445-461	4.2	38
79	Photoacoustic generation of intense and broadband ultrasound pulses with functionalized carbon nanotubes. *Nanoscale*, **2020**, 12, 20831-20839	7.7	2
78	Porphyrin-Loaded Lignin Nanoparticles Against Bacteria: A Photodynamic Antimicrobial Chemotherapy Application. *Frontiers in Microbiology*, **2020**, 11, 606185	5.7	7
77	Hydroaminomethylation reaction as powerful tool for preparation of rhodium/phosphine-functionalized nanomaterials. Catalytic evaluation in styrene hydroformylation. *Catalysis Today*, **2020**, 356, 456-463	5.3	4
76	Multifunctionalization of cyanuric chloride for the stepwise synthesis of potential multimodal imaging chemical entities. *Arabian Journal of Chemistry*, **2020**, 13, 2517-2525	5.9	2
75	A biocompatible redox MRI probe based on a Mn(ii)/Mn(iii) porphyrin. *Dalton Transactions*, **2019**, 48, 3249-3262	4.3	14
74	Hybrid materials for heterogeneous photocatalytic degradation of antibiotics. *Coordination Chemistry Reviews*, **2019**, 395, 63-85	23.2	78

73	Metal-based redox-responsive MRI contrast agents. *Coordination Chemistry Reviews*, **2019**, 390, 1-31	23.2	31
72	Photoinactivation of microorganisms with sub-micromolar concentrations of imidazolium metallophthalocyanine salts. *European Journal of Medicinal Chemistry*, **2019**, 184, 111740	6.8	26
71	A recyclable hybrid manganese(III) porphyrin magnetic catalyst for selective olefin epoxidation using molecular oxygen. *Journal of Porphyrins and Phthalocyanines*, **2018**, 22, 331-341	1.8	14
70	Hybrid Metalloporphyrin Magnetic Nanoparticles as Catalysts for Sequential Transformation of Alkenes and CO2 into Cyclic Carbonates. *ChemCatChem*, **2018**, 10, 2792-2803	5.2	26
69	Conjugated macrocyclic materials with photoactivated optical absorption for the control of energy transmission delivered by pulsed radiations. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2018**, 35, 56-73	16.4	12
68	Molecular-based selection of porphyrins towards the sensing of explosives in the gas phase. *Sensors and Actuators B: Chemical*, **2018**, 260, 116-124	8.5	11
67	Bioinspired-Metalloporphyrin Magnetic Nanocomposite as a Reusable Catalyst for Synthesis of Diastereomeric (-)-Isopulegol Epoxide: Anticancer Activity Against Human Osteosarcoma Cells (MG-63). *Molecules*, **2018**, 24,	4.8	5
66	Metalloporphyrins: Bioinspired Oxidation Catalysts. *ACS Catalysis*, **2018**, 8, 10784-10808	13.1	82
65	A New Tool in the Quest for Biocompatible Phthalocyanines: Palladium Catalyzed Aminocarbonylation for Amide Substituted Phthalonitriles and Illustrative Phthalocyanines Thereof. *Catalysts*, **2018**, 8, 480	4	1
64	Hydrogen Peroxide and Metalloporphyrins in Oxidation Catalysis: Old Dogs with Some New Tricks. *ChemCatChem*, **2018**, 10, 3615-3635	5.2	28
63	Microwave irradiation as a sustainable tool for catalytic carbonylation reactions. *Inorganica Chimica Acta*, **2017**, 455, 364-377	2.7	18
62	Metal coordinated pyrrole-based macrocycles as contrast agents for magnetic resonance imaging technologies: Synthesis and applications. *Coordination Chemistry Reviews*, **2017**, 333, 82-107	23.2	51
61	A Cost-Efficient Method for Unsymmetrical Meso-Aryl Porphyrin Synthesis Using NaY Zeolite as an Inorganic Acid Catalyst. *Molecules*, **2017**, 22,	4.8	9
60	Synthesis of Pyrrole-Based Macrocycles as Molecular Probes for Multimodal Imaging Techniques: Recent Trends. *Current Organic Synthesis*, **2017**, 14,	1.9	8
59	Nonlinear Optical Materials for the Smart Filtering of Optical Radiation. *Chemical Reviews*, **2016**, 116, 13043-13233	68.1	329
58	Halogenated meso-phenyl Mn(III) porphyrins as highly efficient catalysts for the synthesis of polycarbonates and cyclic carbonates using carbon dioxide and epoxides. *Journal of Molecular Catalysis A*, **2016**, 423, 489-494		30
57	The quest for biocompatible phthalocyanines for molecular imaging: Photophysics, relaxometry and cytotoxicity studies. *Journal of Inorganic Biochemistry*, **2016**, 154, 50-9	4.2	18
56	Biologically Inspired and Magnetically Recoverable Copper Porphyrinic Catalysts: A Greener Approach for Oxidation of Hydrocarbons with Molecular Oxygen. *Advanced Functional Materials*, **2016**, 26, 3359-3368	15.6	23

55	Phthalocyanine Labels for Near-Infrared Fluorescence Imaging of Solid Tumors. *Journal of Medicinal Chemistry*, **2016**, 59, 4688-96	8.3	37
54	Synthesis of meso-substituted porphyrins using sustainable chemical processes. *Journal of Porphyrins and Phthalocyanines*, **2016**, 20, 45-60	1.8	24
53	Cost-efficient method for unsymmetrical meso-aryl porphyrins and iron oxide-porphyrin hybrids prepared thereof. *Dalton Transactions*, **2016**, 45, 16211-16220	4.3	9
52	Synthesis of low melting point porphyrins: A quest for new materials. *Journal of Porphyrins and Phthalocyanines*, **2016**, 20, 843-854	1.8	9
51	Solventless metallation of low melting porphyrins synthesized by the water/microwave method. *RSC Advances*, **2015**, 5, 64902-64910	3.7	17
50	Synthesis and characterization of biocompatible bimodal meso-sulfonamide-perfluorophenylporphyrins. *Journal of Fluorine Chemistry*, **2015**, 180, 161-167	2.1	7
49	Microwave Assisted Reactions of Natural Oils: Transesterification and Hydroformylation/Isomerization as Tools for High Value Compounds. *Current Microwave Chemistry*, **2015**, 2, 53-60	0.7	9
48	Synthesis of a new 18F labeled porphyrin for potential application in positron emission tomography. In vivo imaging and cellular uptake. *RSC Advances*, **2015**, 5, 99540-99546	3.7	17
47	Optical detection of amine vapors using ZnTriad porphyrin thin films. *Sensors and Actuators B: Chemical*, **2015**, 210, 28-35	8.5	37
46	Ecofriendly porphyrin synthesis by using water under microwave irradiation. *ChemSusChem*, **2014**, 7, 2821-4	8.3	36
45	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. *Chemical Communications*, **2014**, 50, 6571-3	5.8	30
44	Synthesis and Characterization of New Cross-like Porphyrin–Naphthalocyanine and Porphyrin–Phthalocyanine Pentads. *Journal of Heterocyclic Chemistry*, **2014**, 51, E202-E208	1.9	9
43	Octatosylaminophthalocyanine: A reusable chromogenic anion chemosensor. *Sensors and Actuators B: Chemical*, **2014**, 201, 387-394	8.5	19
42	Glycosylated Metal Phthalocyanines. *Current Organic Synthesis*, **2014**, 11, 59-66	1.9	11
41	Editorial (Thematic Issue: Tetrapyrrolic Macrocycles: Synthesis and Prospects). *Current Organic Synthesis*, **2014**, 11, 1-2	1.9	2
40	Synthesis and Functionalization of Corroles. An Insight on Their Nonlinear Optical Absorption Properties. *Current Organic Synthesis*, **2014**, 11, 29-41	1.9	17
39	Tetrapyrrolic Macrocycles: Potentialities in Medical Imaging Technologies. *Current Organic Synthesis* , **2014**, 11, 127-140	1.9	32
38	Binol derivative ligand immobilized onto silica: Alkyl-cyanohydrin synthesis via sequential hydroformylation/heterogeneous cyanosilylation reactions. *Catalysis Today*, **2013**, 218-219, 99-106	5.3	11

37	Synthesis of binaphthyl based phosphine and phosphite ligands. *Chemical Society Reviews*, **2013**, 42, 6999-7027	38.9	95
36	Inorganic helping organic: recent advances in catalytic heterogeneous oxidations by immobilised tetrapyrrolic macrocycles in micro and mesoporous supports. *RSC Advances*, **2013**, 3, 22774	3.7	56
35	Synthesis of a Rigid Fused Porphyrin-Phthalocyanine Hetero-Dyad with Two Different Metals. *Current Organic Chemistry*, **2013**, 17, 1103-1107	1.7	9
34	Metalloporphyrin triads: Synthesis and photochemical characterization. *Journal of Photochemistry and Photobiology A: Chemistry*, **2012**, 242, 59-66	4.7	26
33	Immobilized Catalysts for Hydroformylation Reactions: A Versatile Tool for Aldehyde Synthesis. *European Journal of Organic Chemistry*, **2012**, 2012, 6309-6320	3.2	65
32	Amphiphilic meso(sulfonate ester fluoroaryl)porphyrins: refining the substituents of porphyrin derivatives for phototherapy and diagnostics. *Tetrahedron*, **2012**, 68, 8767-8772	2.4	39
31	Zinc(II) phthalocyanines immobilized in mesoporous silica Al-MCM-41 and their applications in photocatalytic degradation of pesticides. *Journal of Hazardous Materials*, **2012**, 233-234, 79-88	12.8	47
30	Routes to synthesis of porphyrins covalently bound to poly(carbazole)s and poly(fluorene)s: Structural and computational studies on oligomers. *Journal of Molecular Structure*, **2012**, 1029, 199-208	3.4	8
29	Unsymmetrical porphyrins: the role of meso-substituents on their physical properties. *Journal of Porphyrins and Phthalocyanines*, **2012**, 16, 290-296	1.8	19
28	An insight into solvent-free diimide porphyrin reduction: a versatile approach for meso-aryl hydroporphyrin synthesis. *Green Chemistry*, **2012**, 14, 1666	10	42
27	Energy transfer from fluorene-based conjugated polyelectrolytes to on-chain and self-assembled porphyrin units. *Journal of Polymer Science Part A*, **2012**, 50, 1408-1417	2.5	26
26	Near-infrared absorbing organic materials with nonlinear transmission properties. *International Reviews in Physical Chemistry*, **2012**, 31, 319-366	7	33
25	Synthesis of new metalloporphyrin triads: efficient and versatile tripod optical sensor for the detection of amines. *Inorganic Chemistry*, **2011**, 50, 7916-8	5.1	32
24	Rhodium(I) N-Heterocyclic Carbene Complexes as Catalysts for Hydroformylation of Olefins: An Overview. *Current Organic Synthesis*, **2011**, 8, 764-775	1.9	20
23	Synthesis and high ranked NLT properties of new sulfonamide-substituted indium phthalocyanines. *Inorganica Chimica Acta*, **2010**, 363, 3945-3950	2.7	15
22	Tetrabrominated lead naphthalocyanine for optical power limiting. *Chemistry - A European Journal*, **2010**, 16, 1212-20	4.8	31
21	Synthesis of sulfonamide-substituted phthalocyanines. *Tetrahedron Letters*, **2009**, 50, 6882-6885	2	9
20	Self-Healing of Gold Nanoparticles in the Presence of Zinc Phthalocyanines and Their Very Efficient Nonlinear Absorption Performances. *Journal of Physical Chemistry C*, **2009**, 113, 8688-8695	3.8	43

19	Recent developments in the synthesis of homo- and heteroarrays of porphyrins and phthalocyanines. *Journal of Porphyrins and Phthalocyanines*, **2009**, 13, 419-428	1.8	23
18	Indium phthalocyanines with different axial ligands: a study of the influence of the structure on the photophysics and optical limiting properties. *Journal of Physical Chemistry A*, **2008**, 112, 8515-22	2.8	30
17	Large two-photon absorption cross sections of hemiporphyrazines in the excited state: the multiphoton absorption process of hemiporphyrazines with different central metals. *Journal of the American Chemical Society*, **2008**, 130, 12290-8	16.4	35
16	Photophysics and nonlinear optical properties of tetra- and octabrominated silicon naphthalocyanines. *Journal of Physical Chemistry A*, **2008**, 112, 472-80	2.8	30
15	Titanium Phthalocyanines with Axial Phenylenevinylenes. *European Journal of Organic Chemistry*, **2008**, 2008, 3209-3214	3.2	8
14	Symmetrically and Unsymmetrically Substituted Phthalocyanines **2008**, 217-225		
13	Axial halogen ligand effect on photophysics and optical power limiting of some indium naphthalocyanines. *Journal of Physical Chemistry A*, **2007**, 111, 3263-70	2.8	35
12	A new glycosidation method through nitrite displacement on substituted nitrobenzenes. *Carbohydrate Research*, **2007**, 342, 440-7	2.9	30
11	Expeditious Synthesis of Glycosylated Phthalocyanines. *Synthesis*, **2007**, 2007, 2186-2192	2.9	4
10	Demonstration of the optical limiting effect for an hemiporphyrazine. *Chemical Communications*, **2006**, 2394-6	5.8	23
9	Analysis of the nonlinear transmission properties of some naphthalocyanines. *Journal of Porphyrins and Phthalocyanines*, **2006**, 10, 1165-1171	1.8	25
8	Nonlinear transmission of a tetrabrominated naphthalocyaninato indium chloride. *Journal of Physical Chemistry B*, **2006**, 110, 12230-9	3.4	37
7	The first example of anomeric glycoconjugation to phthalocyanines. *Tetrahedron Letters*, **2006**, 47, 3283-3286	2	63
6	Synthesis, DFT calculations, linear and nonlinear optical properties of binuclear phthalocyanine gallium chloride. *Journal of Molecular Modeling*, **2006**, 12, 543-50	2	26
5	Synthesis of axially substituted gallium, indium and thallium phthalocyanines with nonlinear optical properties. *Arkivoc*, **2006**, 2006, 77-96	0.9	5
4	Synthesis of a Bisphthalocyanine and Its Nonlinear Optical Properties. *European Journal of Organic Chemistry*, **2005**, 2005, 3499-3509	3.2	46
3	Porphyrins and phthalocyanines as materials for optical limiting. *Synthetic Metals*, **2004**, 141, 231-243	3.6	374
2	A Binuclear Phthalocyanine Containing Two Different Metals. *European Journal of Organic Chemistry*, **2003**, 2003, 2080-2083	3.2	35

List of Publications

1 Synthesis, DFT calculations, linear and nonlinear optical properties of binuclear phthalocyanine gallium chloride543-550