

Maria Elena Perez Mayoral

List of Publications by Year in descending order

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61
papers

2,009
citations

318942

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286692

43
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all docs

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docs citations

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times ranked

2853
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced catalytic performance of ZnO/carbon materials in the green synthesis of poly-substituted quinolines. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106879.	3.3	11
2	Porous catalytic systems in the synthesis of bioactive heterocycles and related compounds. , 2021, , 97-164.		3
3	Amino-grafted Cu and Sc Metal-Organic Frameworks involved in the green synthesis of 2-amino-4H-chromenes. Mechanistic understanding. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111232.	2.2	6
4	Porous carbons-derived from vegetal biomass in the synthesis of quinoxalines. Mechanistic insights. <i>Catalysis Today</i> , 2020, 354, 90-99.	2.2	13
5	Basic-carbon nanocatalysts in the efficient synthesis of chromene derivatives. Valorization of both PET residues and mineral sources. <i>Chemical Engineering Journal</i> , 2020, 382, 122795.	6.6	10
6	Basolites: A type of Metal Organic Frameworks highly efficient in the one-pot synthesis of quinoxalines from α -hydroxy ketones under aerobic conditions. <i>Catalysis Today</i> , 2020, 345, 258-266.	2.2	11
7	Acidic porous carbons involved in the green and selective synthesis of benzodiazepines. <i>Catalysis Today</i> , 2020, 357, 64-73.	2.2	13
8	Towards highly efficient hydrotalcite/hydroxyapatite composites as novel catalysts involved in eco-synthesis of chromene derivatives. <i>Applied Clay Science</i> , 2020, 198, 105833.	2.6	11
9	Carbon-Based Materials for the Development of Highly Dispersed Metal Catalysts: Towards Highly Performant Catalysts for Fine Chemical Synthesis. <i>Catalysts</i> , 2020, 10, 1407.	1.6	24
10	Enhanced catalytic performance of highly mesoporous hydrotalcite/SBA-15 composites involved in chromene multicomponent synthesis. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110569.	2.2	14
11	Tantalum vs Niobium MCF nanocatalysts in the green synthesis of chromene derivatives. <i>Catalysis Today</i> , 2019, 325, 47-52.	2.2	11
12	New and Advanced Porous Carbon Materials in Fine Chemical Synthesis. Emerging Precursors of Porous Carbons. <i>Catalysts</i> , 2019, 9, 133.	1.6	56
13	Cobalt oxide-carbon nanocatalysts with highly enhanced catalytic performance for the green synthesis of nitrogen heterocycles through the FriedlÄnder condensation. <i>Dalton Transactions</i> , 2019, 48, 5637-5648.	1.6	11
14	Bifunctional Porous Catalysts in the Synthesis of Valuable Products. , 2019, , 25-61.		1
15	Developing strategies for the preparation of Co-carbon catalysts involved in the free solvent selective synthesis of aza-heterocycles. <i>Molecular Catalysis</i> , 2018, 445, 223-231.	1.0	10
16	Enhanced Catalytic Properties of Carbon supported Zirconia and Sulfated Zirconia for the Green Synthesis of Benzodiazepines. <i>ChemCatChem</i> , 2018, 10, 5215-5223.	1.8	15
17	Highly Efficient and Selective Catalytic Synthesis of Quinolines Involving Transition-Metal-Doped Carbon Aerogels. <i>ChemCatChem</i> , 2017, 9, 1422-1428.	1.8	23
18	Silica-based nanocatalysts in the C C and C-heteroatom bond forming cascade reactions for the synthesis of biologically active heterocyclic scaffolds. <i>Catalysis Today</i> , 2017, 285, 65-88.	2.2	17

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19	Acid clay minerals as eco-friendly and cheap catalysts for the synthesis of β -amino ketones by Mannich reaction. <i>Applied Clay Science</i> , 2017, 143, 250-257.	2.6	14
20	Metal-free synthesis of quinolines catalyzed by carbon aerogels: Influence of the porous texture and surface chemistry. <i>Chemical Engineering Journal</i> , 2017, 314, 488-497.	6.6	25
21	Mesoporous niobiosilicate NbMCF modified with alkali metals in the synthesis of chromene derivatives. <i>Catalysis Today</i> , 2016, 277, 133-142.	2.2	17
22	Metal-supported carbon-based materials: opportunities and challenges in the synthesis of valuable products. <i>Catalysis Science and Technology</i> , 2016, 6, 1265-1291.	2.1	135
23	Poros Catalytic Systems in the Synthesis of Bioactive Heterocycles and Related Compounds. , 2015, , 377-408.		4
24	A step forward to the dehydrogenation reversibility of amine-borane adducts by coupling sodium and hydrocarbon groups. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2763-2767.	3.8	9
25	Imidazolium Sulfonates as Environmental-Friendly Catalytic Systems for the Synthesis of Biologically Active 2-Amino-4 <i>H</i> -chromenes: Mechanistic Insights. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12042-12049.	1.2	17
26	Amino-grafted SBA-15 material as dual acid–base catalyst for the synthesis of coumarin derivatives. <i>Catalysis Today</i> , 2014, 227, 215-222.	2.2	29
27	Eco-Friendly Catalytic Systems Based on Carbon-Supported Magnesium Oxide Materials for the FriedlÄnder Condensation. <i>ChemCatChem</i> , 2014, 6, 3440-3447.	1.8	16
28	Thermolytic Decomposition of Ethane 1,2-Diamineborane Investigated by Thermoanalytical Methods and in Situ Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17221-17230.	1.5	43
29	Molecular sieves and catalysis. CIS-5 conference. <i>Catalysis Today</i> , 2014, 227, 1.	2.2	1
30	Amino-grafted mesoporous materials based on MCF structure involved in the quinoline synthesis. Mechanistic insights. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 38-46.	4.8	31
31	Acid-Activated Carbon Materials: Cheaper Alternative Catalysts for the Synthesis of Substituted Quinolines. <i>ChemCatChem</i> , 2013, 5, 3736-3742.	1.8	24
32	Bifunctional mesoporous MCF materials as catalysts in the FriedlÄnder condensation. <i>Catalysis Today</i> , 2013, 218-219, 70-75.	2.2	23
33	Theoretical investigation of the FriedlÄnder reaction catalysed by CuBTC: Concerted effect of the adjacent Cu ²⁺ sites. <i>Catalysis Today</i> , 2013, 204, 101-107.	2.2	33
34	Intramolecular Hydroalkoxylation of Non-Activated C–C Bonds Catalysed by Zeolites: An Experimental and Theoretical Study. <i>ChemSusChem</i> , 2013, 6, 1021-1030.	3.6	10
35	Synthesis of quinolines via FriedlÄnder reaction catalyzed by CuBTC metal–organic-framework. <i>Dalton Transactions</i> , 2012, 41, 4036.	1.6	118
36	Mesoporous carbon as an efficient catalyst for alcoholysis and aminolysis of epoxides. <i>Applied Catalysis A: General</i> , 2012, 439-440, 24-30.	2.2	28

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37	Efficient isomerization of safrole by amino-grafted MCM-41 materials as basic catalysts. <i>Catalysis Today</i> , 2012, 179, 159-163.	2.2	13
38	New inorganic-organic hybrid materials based on SBA-15 molecular sieves involved in the quinolines synthesis. <i>Catalysis Today</i> , 2012, 187, 97-103.	2.2	26
39	Cesium-saponites as excellent environmental-friendly catalysts for the synthesis of N-alkyl pyrazoles. <i>Applied Clay Science</i> , 2011, 54, 125-131.	2.6	10
40	[Cu ₃ (BTC) ₂]: A Metal-Organic Framework Catalyst for the FriedlÄnder Reaction. <i>ChemCatChem</i> , 2011, 3, 157-159.	1.8	139
41	Isomerization of Eugenol Under Ultrasound Activation Catalyzed by Alkali Modified Mesoporous NbMCM-41. <i>Topics in Catalysis</i> , 2010, 53, 179-186.	1.3	15
42	Zeolites Promoting Quinoline Synthesis via FriedlÄnder Reaction. <i>Topics in Catalysis</i> , 2010, 53, 1430-1437.	1.3	26
43	Zeolites Efficiently Promote the Cyclization of Nonactivated Unsaturated Alcohols. <i>Chemistry - A European Journal</i> , 2010, 16, 12079-12082.	1.7	15
44	Experimental and theoretical study of pyrazole N-alkylation catalyzed by basic modified molecular sieves. <i>Chemical Engineering Journal</i> , 2010, 161, 377-383.	6.6	15
45	Real-time Raman monitoring of dry media heterogeneous alkylation of imidazole with acidic and basic catalysts. <i>Chemical Engineering Journal</i> , 2010, 161, 371-376.	6.6	34
46	Coumarins Preparation by Pechmann Reaction Under Ultrasound Irradiation. Synthesis of Hymecromone as Insecticide Intermediate. <i>Catalysis Letters</i> , 2009, 128, 318-322.	1.4	26
47	Green Synthesis of Acetals/Ketals: Efficient Solvent-Free Process for the Carbonyl/Hydroxyl Group Protection Catalyzed by SBA-15 Materials. <i>Topics in Catalysis</i> , 2009, 52, 148-152.	1.3	24
48	Recent Advances in the FriedlÄnder Reaction. <i>Chemical Reviews</i> , 2009, 109, 2652-2671.	23.0	572
49	Novel Basic Mesoporous Catalysts for the FriedlÄnder Reaction from 2-Aminoaryl Ketones: Quinolin-2(1 <i>H</i>)-ones versus Quinolines. <i>ChemCatChem</i> , 2009, 1, 241-243.	1.8	60
50	Chemistry of paramagnetic and diamagnetic contrast agents for Magnetic Resonance Imaging and Spectroscopy. <i>European Journal of Radiology</i> , 2008, 67, 453-458.	1.2	42
51	Novel Generation of pH Indicators for Proton Magnetic Resonance Spectroscopic Imaging. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 4539-4542.	2.9	10
52	Synthetic Approaches to Heterocyclic Ligands for Gd-Based MRI Contrast Agents. <i>Molecules</i> , 2007, 12, 1771-1795.	1.7	7
53	Dimethyl (2E)-2-(4-nitro-1H-imidazol-1-yl)but-2-enedioate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o1790-o1791.	0.2	0
54	Experimental and Theoretical Study of Lanthanide Complexes Based on Linear and Macrocyclic Polyaminopolycarboxylic Acids Containing Pyrazolylethyl Arms. <i>Molecules</i> , 2006, 11, 345-356.	1.7	8

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55	A Convenient and Efficient Synthesis of the First (Nitroimidazolyl)succinic Esters and their Diacids. <i>Synthesis</i> , 2006, 2006, 3859-3864.	1.2	1
56	Pyrazolo[3,4-c]pyridazines as Novel and Selective Inhibitors of Cyclin-Dependent Kinases. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6843-6854.	2.9	63
57	A novel series of complexones with bis- or biazole structure as mixed ligands of paramagnetic contrast agents for MRI. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 5555-5567.	1.4	10
58	A Novel Photochemical Vinylcyclopropane Rearrangement Yielding 6,7-Dihydro-5H-benzocycloheptene Derivatives. <i>Organic Letters</i> , 2000, 2, 183-186.	2.4	18
59	The aza-di- π -methane rearrangement of $\hat{1}^2$ - $\hat{1}^3$ -unsaturated oximes. <i>Tetrahedron Letters</i> , 1994, 35, 3785-3788.	0.7	15
60	A Study of the Competition between the Di- π -methane and the Azadi- π -methane Processes in 2-Vinyl- β,γ -unsaturated Oxime Derivatives. The Novel Azadi- π -methane Reactivity of β,γ -Unsaturated Oximes. <i>Journal of Organic Chemistry</i> , 1994, 59, 8115-8124.	1.7	20
61	The subcellular metabolism of water and its implications for magnetic resonance image contrast. <i>Special Publication - Royal Society of Chemistry</i> , 0, , 121-135.	0.0	3