

# Marco Scarsella

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,162  
citations

218677

26  
h-index

223800

46  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal liquefaction of biomass: Influence of temperature and biomass composition on the bio-oil production. <i>Fuel</i> , 2017, 208, 618-625.	6.4	161
2	Viscosimetric and Neutron Scattering Study of Asphaltene Aggregates in Mixed Toluene/Heptane Solvents. <i>Langmuir</i> , 1998, 14, 1013-1020.	3.5	154
3	Oxidative Desulfurization: % Oxidation Reactivity of Sulfur Compounds in Different Organic Matrixes. <i>Energy &amp; Fuels</i> , 2003, 17, 1452-1455.	5.1	121
4	Production of stable polypropylene-modified bitumens. <i>Fuel</i> , 1996, 75, 681-686.	6.4	104
5	Kinetic of methane steam reforming reaction over nickel- and rhodium-based catalysts. <i>Applied Catalysis A: General</i> , 2010, 387, 147-154.	4.3	92
6	The application of rheology to the evaluation of bitumen ageing. <i>Fuel</i> , 2000, 79, 1005-1015.	6.4	85
7	Effect of <i>Chlorella vulgaris</i> growing conditions on bio-oil production via fast pyrolysis. <i>Biomass and Bioenergy</i> , 2014, 61, 187-195.	5.7	85
8	Peroxyformic Acid Formation: A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 1372-1375.	3.7	76
9	Macrostructure and Rheological Properties of Chemically Modified Residues and Bitumens. <i>Energy &amp; Fuels</i> , 2000, 14, 495-502.	5.1	75
10	Heterogeneous catalysts for hydrothermal liquefaction of lignocellulosic biomass: A review. <i>Biomass and Bioenergy</i> , 2020, 140, 105662.	5.7	75
11	Pyrolysis wastewater treatment by adsorption on biochars produced by poplar biomass. <i>Journal of Environmental Management</i> , 2017, 197, 231-238.	7.8	66
12	Colloidal Structure of Heavy Crudes and Asphaltene Solutions. <i>Oil &amp; Gas Science &amp; Technology</i> , 1997, 52, 161-175.	0.2	65
13	XPS Spectra Analysis of Ti <sup>2+</sup> , Ti <sup>3+</sup> Ions and Dye Photodegradation Evaluation of Titania-Silica Mixed Oxide Nanoparticles. <i>Journal of Electronic Materials</i> , 2018, 47, 2215-2224.	2.2	65
14	Transesterification processes for vegetable oils: A simple control method of methyl ester content. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 1399-1404.	1.9	63
15	Improving the ageing resistance of straight-run bitumens by addition of phosphorus compounds. <i>Fuel</i> , 1995, 74, 836-841.	6.4	58
16	Rh, Ru and Pt ternary perovskites type oxides BaZr(1-x)MexO <sub>3</sub> for methane dry reforming. <i>Applied Catalysis A: General</i> , 2016, 517, 47-55.	4.3	58
17	Enhanced bio-crude yield and quality by reductive hydrothermal liquefaction of oak wood biomass: Effect of iron addition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 139, 123-130.	5.5	56
18	Study of the parameters of zeolites synthesis from coal fly ash in order to optimize their CO <sub>2</sub> adsorption. <i>Fuel</i> , 2020, 276, 118041.	6.4	50

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19	Biomass Gasification Plant and Syngas Clean-up System. <i>Energy Procedia</i> , 2015, 75, 240-245.	1.8	46
20	Oxidative Desulfurization I: Peroxyformic Acid Oxidation of Benzothiophene and Dibenzothiophene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 4594-4600.	3.7	45
21	Production of Dimethyl Carbonate via Alkylene Carbonate Transesterification Catalyzed by Basic Salts. <i>Energy &amp; Fuels</i> , 2006, 20, 17-20.	5.1	42
22	Functionalized Hexagonal Mesoporous Silica as an Oxidizing Agent for the Oxidative Desulfurization of Organosulfur Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 973-975.	3.7	35
23	Unsupported Ni metal catalyst in hydrothermal liquefaction of oak wood: Effect of catalyst surface modification. <i>Science of the Total Environment</i> , 2020, 709, 136215.	8.0	33
24	Dechlorination of Polychlorinated Biphenyls: A Kinetic Study of Removal of PCBs from Mineral Oils. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 380-384.	3.7	31
25	Kinetic analysis of biomass pyrolysis using a double distributed activation energy model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 1403-1410.	3.6	30
26	Methane dry reforming on Ru perovskites, AZrRuO <sub>3</sub> : Influence of preparation method and substitution of A cation with alkaline earth metals. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 30, 222-231.	6.8	28
27	Mechanical stress tolerance of two microalgae. <i>Process Biochemistry</i> , 2012, 47, 1603-1611.	3.7	27
28	Effect of Ni, Zn and Fe on hydrothermal liquefaction of cellulose: Impact on bio-crude yield and composition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105225.	5.5	26
29	Double Distribution Activation Energy Model as Suitable Tool in Explaining Biomass and Coal Pyrolysis Behavior. <i>Energies</i> , 2015, 8, 1730-1744.	3.1	25
30	Colloidal Structural Evolution from Stable to Flocculated State of Asphaltene Solutions and Heavy Crudes. , 1998, , 145-201.		23
31	Fenton oxidation of primary municipal wastewater treatment plant sludge: Process modelling and reactor scale-up. <i>Chemical Engineering Research and Design</i> , 2020, 140, 46-59.	5.6	22
32	A rapid and convenient synthesis of tetrakis(triphenylphosphine)palladium(O) and -platinum(O) complexes by phase-transfer catalysis. <i>Polyhedron</i> , 1991, 10, 2475-2476.	2.2	20
33	Oxidative Desulfurization II: Temperature Dependence of Organosulfur Compounds Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10452-10457.	3.7	20
34	Improved Quality Bio-Crude from Hydrothermal Liquefaction of Oak Wood Assisted by Zero-Valent Metals. <i>Energy &amp; Fuels</i> , 2021, 35, 10023-10034.	5.1	19
35	Effect of H <sub>2</sub> S and thiophene on the steam reforming activity of nickel and rhodium catalysts in a simulated coke oven gas stream. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117977.	20.2	18
36	Mise en Évidence de la polydispersité physico-chimique des asphaltènes. <i>Oil &amp; Gas Science &amp; Technology</i> , 1996, 51, 575-590.	0.2	18

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37	Steam reforming of tar model compounds over ni supported on CeO <sub>2</sub> and mayenite. Canadian Journal of Chemical Engineering, 2017, 95, 1745-1751.	1.7	17
38	New synthetic route for the production of mayenite support to enhance Ni resistance to coke deposition in the reforming of tar model compounds. Applied Catalysis A: General, 2019, 574, 48-59.	4.3	17
39	Petroleum Heavy Ends Stability: Evolution of Residues Macrostructure by Aging. Energy & Fuels, 1999, 13, 739-747.	5.1	13
40	Olive oil residue gasification and syngas integrated clean up system. Fuel, 2015, 158, 705-710.	6.4	13
41	Enhancing the photocatalytic activity of TiO <sub>2</sub> and TiO <sub>2</sub> @SiO <sub>2</sub> by coupling with graphene-gold nanocomposites. Journal of Materials Science: Materials in Electronics, 2021, 32, 5082-5093.	2.2	13
42	Guaiacol hydrotreating with in-situ generated hydrogen over ni/modified zeolite supports. Renewable Energy, 2022, 182, 647-658.	8.9	12
43	AN INTEGRATED PROCESS FOR STABILIZATION AND UPGRADING OF RESIDUES AND BITUMENS. Petroleum Science and Technology, 1996, 14, 821-838.	0.2	9
44	Evaluation of bitumen modification with crumb rubber obtained through a high pressure water jet (HPWJ) process. Construction and Building Materials, 2017, 151, 682-691.	7.2	9
45	Biomass Gasification and Tar Reforming in a Two-stage Reactor. Energy Procedia, 2014, 61, 1071-1074.	1.8	8
46	Hydrotreating of oak wood bio-crude using heterogeneous hydrogen producer over Y zeolite catalyst synthesized from rice husk. Energy Conversion and Management, 2022, 255, 115348.	9.2	6
47	Stabilization and partial deasphalting of thermal residues by chemical treatment. Energy & Fuels, 1994, 8, 141-146.	5.1	5
48	Biomass Gasification: The Effect of the Surface Area of Different Materials on Tar Abatement Efficiency. Energy & Fuels, 2020, 34, 1137-1144.	5.1	5
49	Biocrude production by hydrothermal liquefaction of olive residue. International Journal of Sustainable Development and Planning, 2016, 11, 700-707.	0.7	5
50	Energy recovery from unused and expired medicines. , 2012, , .		3
51	A simple test method for distinguishing straight-run from thermal (visbreaker) residues or bitumens. Fuel, 1995, 74, 1537-1539.	6.4	2
52	Tetrachloroethene recovery and hazard reduction of spent powders from dry cleaning process. Waste Management and Research, 2015, 33, 339-344.	3.9	2
53	Poultry litter valorization to energy. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	2
54	Batch waste gasification technology: characteristics and perspectives. WIT Transactions on State-of-the-art in Science and Engineering, 2015, , 125-132.	0.0	1

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55	The hydrothermal decomposition of biomass and waste to produce bio-oil. , 2014, , .		1
56	Batch waste gasification technology: characteristics and perspectives. WIT Transactions on Ecology and the Environment, 2010, , .	0.0	1
57	Waste gasification in an up-draft fixed-bed gasifier: experimental study and model validation. , 2012, , .		1
58	The impact of chaotic advection on the microstructure of polymerâ€modified bitumen. AICHE Journal, 2014, 60, 1870-1879.	3.6	0
59	Heavy metal behaviour during RDF gasification. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
60	Innovative technique for the control of NOxformed in combustion processes. , 2010, , .		0