Silvia Roman

List of Publications by Year
in descending order

69 papers	3,008 citations	218381 26 h-index	168136 53 g-index
70 all docs	70 docs citations	70 times ranked	3658 citing authors

#	Article	IF	Citations
1	Development and characterization of activated hydrochars from orange peels as potential adsorbents for emerging organic contaminants. Bioresource Technology, 2015, 183, 221-228.	4.8	241
2	Pyrolysis of various biomass residues and char utilization for the production of activated carbons. Journal of Analytical and Applied Pyrolysis, 2009, 85, 134-141.	2.6	240
3	Hydrothermal carbonization as an effective way of densifying the energy content of biomass. Fuel Processing Technology, 2012, 103, 78-83.	3.7	220
4	Production of low-cost adsorbents with tunable surface chemistry by conjunction of hydrothermal carbonization and activation processes. Microporous and Mesoporous Materials, 2013, 165, 127-133.	2.2	207
5	Conversion of tomato-peel waste into solid fuel by hydrothermal carbonization: Influence of the processing variables. Waste Management, 2016, 47, 122-132.	3.7	190
6	Hydrothermal Carbonization: Modeling, Final Properties Design and Applications: A Review. Energies, 2018, 11, 216.	1.6	134
7	Investigation on the reactions influencing biomass air and air/steam gasification for hydrogen production. Fuel Processing Technology, 2008, 89, 764-772.	3.7	123
8	Control of pore development during CO2 and steam activation of olive stones. Fuel Processing Technology, 2008, 89, 715-720.	3.7	121
9	Porosity Development in Activated Carbons Prepared from Walnut Shells by Carbon Dioxide or Steam Activation. Industrial & Engineering Chemistry Research, 2009, 48, 7474-7481.	1.8	102
10	Characterization and combustion of olive pomace and forest residue pellets. Fuel Processing Technology, 2012, 103, 91-96.	3.7	102
11	Thermogravimetric study of the pyrolysis of biomass residues from tomato processing industry. Fuel Processing Technology, 2006, 87, 109-115.	3.7	79
12	Study of variables in energy densification of olive stone by hydrothermal carbonization. Journal of Analytical and Applied Pyrolysis, 2015, 113, 307-314.	2.6	77
13	Phenol removal onto novel activated carbons made from lignocellulosic precursors: Influence of surface properties. Journal of Hazardous Materials, 2009, 167, 904-910.	6.5	76
14	Removal efficiency of radioactive methyl iodide on TEDA-impregnated activated carbons. Fuel Processing Technology, 2011, 92, 247-252.	3.7	72
15	Generation of biofuel from hydrothermal carbonization of cellulose. Kinetics modelling. Energy, 2016, 94, 600-608.	4.5	69
16	Characterization of grape pomace and pyrenean oak pellets. Fuel Processing Technology, 2011, 92, 278-283.	3.7	65
17	Catalytic pyrolysis of exhausted olive oil waste. Journal of Analytical and Applied Pyrolysis, 2009, 85, 197-203.	2.6	59
18	Cyclic adsorption/thermal regeneration of activated carbons. Journal of Analytical and Applied Pyrolysis, 2014, 106, 112-117.	2.6	53

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19	Oxidation of MCPA and 2,4-dby UV Radiation, Ozone, and the Combinations UV/H2O2and O3/H2O2. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2004, 39, 393-409.	0.7	49
20	Influence of morphology, porosity and crystal structure of CaCO3 precursors on the CO2 capture performance of CaO-derived sorbents. Chemical Engineering Journal, 2013, 217, 71-81.	6.6	42
21	Suitability of hydrothermal carbonization to convert water hyacinth to added-value products. Renewable Energy, 2020, 146, 1649-1658.	4.3	42
22	Use of almond residues for domestic heating. Study of the combustion parameters in a mural boiler. Fuel Processing Technology, 2005, 86, 1351-1368.	3.7	38
23	Reduction of tars by dolomite cracking during two-stage gasification of olive cake. Biomass and Bioenergy, 2011, 35, 4324-4330.	2.9	36
24	Almond residues gasification plant for generation of electric power. Preliminary study. Fuel Processing Technology, 2006, 87, 149-155.	3.7	35
25	Biomass pyrolysis toward hydrocarbonization. Influence on subsequent steam gasification processes. Journal of Analytical and Applied Pyrolysis, 2015, 113, 380-389.	2.6	33
26	Two stage thermal regeneration of exhausted activated carbons. Steam gasification of effluents. Journal of Analytical and Applied Pyrolysis, 2013, 103, 201-206.	2.6	28
27	Study of the emissions and kinetic parameters during combustion of grape pomace: Dilution as an effective way to reduce pollution. Fuel Processing Technology, 2012, 103, 160-165.	3.7	27
28	Emissions from thermal degradation of pellets with different contents of olive waste and forest residues. Fuel Processing Technology, 2010, 91, 1459-1463.	3.7	26
29	Method for promoting in-situ hydrochar porosity in hydrothermal carbonization of almond shells with air activation. Journal of Supercritical Fluids, 2018, 138, 187-192.	1.6	26
30	Surface Interactions during the Removal of Emerging Contaminants by Hydrochar-Based Adsorbents. Molecules, 2020, 25, 2264.	1.7	24
31	Improvement of spent activated carbon regeneration by wet oxidation processes. Journal of Supercritical Fluids, 2015, 104, 94-103.	1.6	23
32	Dependence of the Microporosity of Activated Carbons on the Lignocellulosic Composition of the Precursors. Energies, 2017, 10, 542.	1.6	20
33	Comparative study on the thermal reactivation of spent adsorbents. Fuel Processing Technology, 2013, 116, 358-365.	3.7	19
34	Carbon dioxide-activated carbons from almond tree pruning: Preparation and characterization. Applied Surface Science, 2006, 252, 5993-5998.	3.1	17
35	Control of Several Emissions during Olive Pomace Thermal Degradation. International Journal of Molecular Sciences, 2014, 15, 18349-18361.	1.8	17
36	Towards a more efficient Hydrothermal Carbonization: Processing water recirculation under different conditions. Waste Management, 2021, 132, 115-123.	3.7	17

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37	Air-activated carbons from almond tree pruning: Preparation and characterization. Applied Surface Science, 2006, 252, 5988-5992.	3.1	16
38	Fundamental Studies of Methyl Iodide Adsorption in DABCO Impregnated Activated Carbons. Langmuir, 2013, 29, 6849-6855.	1.6	16
39	Pine cone pyrolysis: Optimization of temperature for energy recovery. Environmental Progress and Sustainable Energy, 2020, 39, 13272.	1.3	16
40	Glycerin, a Biodiesel By-Product with Potentiality to Produce Hydrogen by Steam Gasification. Energies, 2015, 8, 12765-12775.	1.6	15
41	Surface free energy analysis of adsorbents used for radioiodine adsorption. Applied Surface Science, 2013, 282, 714-717.	3.1	13
42	Fundamental study on the thermal regeneration stages of exhausted activated carbons: kinetics. Journal of Thermal Analysis and Calorimetry, 2014, 115, 537-543.	2.0	13
43	Modelling the composition of the gas obtained by steam reforming of glycerine. Energy Conversion and Management, 2017, 146, 147-157.	4.4	13
44	Towards sustainable micro-pollutantsâ€™ removal from wastewaters: caffeine solubility, self-diffusion and adsorption studies from aqueous solutions into hydrochars. Molecular Physics, 2018, 116, 2129-2141.	0.8	13
45	COVID-19 Outbreak: Insights about Teaching Tasks in a Chemical Engineering Laboratory. Education Sciences, 2020, 10, 226.	1.4	13
46	Jerusalem artichoke pyrolysis: Energetic evaluation. Journal of Analytical and Applied Pyrolysis, 2009, 85, 294-300.	2.6	11
47	Study of the Contributions of Nonâ€Specific and Specific Interactions during Fluoxetine Adsorption onto Activated Carbons. Clean - Soil, Air, Water, 2012, 40, 698-705.	0.7	11
48	Behavior of Stable Carbon and Stable Nitrogen Isotopes during Hydrothermal Carbonization of biomass. Journal of Analytical and Applied Pyrolysis, 2018, 131, 85-92.	2.6	11
49	Aqueous thermal desorption as an effective way to regenerate spent activated carbons. Journal of Supercritical Fluids, 2014, 85, 24-30.	1.6	10
50	Study of the Mechanisms Involved in the Adsorption of Amitriptyline from Aqueous Solution onto Activated Carbons. Adsorption Science and Technology, 2010, 28, 739-750.	1.5	9
51	Opportunities given by final degree dissertations inside the EHEA to enhance ethical learning in technical education. European Journal of Engineering Education, 2013, 38, 149-158.	1.5	9
52	Characterisation under static and dynamic conditions of commercial activated carbons for their use in wastewater plants. Applied Surface Science, 2006, 252, 6058-6063.	3.1	8
53	Production of Cost-Effective Mesoporous Materials from Prawn Shell Hydrocarbonization. Nanoscale Research Letters, 2016, 11, 435.	3.1	6
54	Magnetic Behavior of Carbon Materials Made from Biomass by Fe-Assisted Hydrothermal Carbonization. Molecules, 2019, 24, 3996.	1.7	6

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55	Developing and Implementing a Laboratory Safety Course Focusing on Biodiesel and Biolubricants to Train Student Researchers and Promote Safety Culture. Journal of Chemical Education, 2021, 98, 134-142.	1.1	6
56	Biodiesel by Enzymatic Transesterification of Sunflower Oil with Ethanol. Journal of Biobased Materials and Bioenergy, 2010, 4, 87-94.	0.1	6
57	DE LA EFICACIA A LA SOSTENIBILIDAD. FROM EFICIENCY TO SUSTAINABILITY.. Dyna (Spain), 2010, 85, 575-580.	0.1	6
58	Plant for the production of activated carbon and electric power from the gases originated in gasification processes. Fuel Processing Technology, 2006, 87, 117-122.	3.7	5
59	Preparation and characterization of carbons for the retention of halogens in the condenser vacuum system of a thermonuclear plant. Applied Surface Science, 2006, 252, 6036-6041.	3.1	4
60	Modelling the Adsorption of p-Nitrophenol by the Boyd Method in Conjunction with the Finite Element Method. Adsorption Science and Technology, 2010, 28, 671-687.	1.5	4
61	Homogeneous Diffusion Solid Model as a Realistic Approach to Describe Adsorption onto Materials with Different Geometries. Nanoscale Research Letters, 2016, 11, 547.	3.1	3
62	Hydrothermal carbonization as a preliminary step to pine cone pyrolysis for bioenergy production. Comptes Rendus Chimie, 2020, 23, 607-621.	0.2	3
63	Viability study of cold generation from biomass in an agrarian exploitation. Fuel Processing Technology, 2006, 87, 129-133.	3.7	2
64	Hydrocarbonization. Does It Worth to Be Called a Pretreatment?. , 2019, , .		1
65	Olive stone: a source of energy generation and a suitable precursor for activated carbon production. Renewable Energy and Power Quality Journal, 2008, 1, 608-612.	0.2	1
66	Providing an added-value to biodiesel by-products: pyrolysis of glicerin. Thermogravimetric study and analysis of sulphur emissions. Renewable Energy and Power Quality Journal, 0, , 1419-1422.	0.2	1
67	On the search of efficient uses for glycerine: steam gasification. Renewable Energy and Power Quality Journal, 0, , 1362-1365.	0.2	0
68	TÃ‰CNICAS DESTINADAS A LA REDUCCIÃ“N DE EMISIONES EN EL APROVECHAMIENTO ENERGÃ‰TICO DE BIOMASA - d7088_ACELERADO. Dyna (Spain), 2015, 90, 130-130.	0.1	0
69	STUDY OF THE DEVOLATILIZATION KINETICS OF KENAF BY ISOCONVERSIONAL METHODS. INFLUENCE OF VARIABLES. Environmental Engineering and Management Journal, 2018, 17, 1417-1424.	0.2	0