

# Sonja Schreurs

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,201  
citations

218677

26  
h-index

233421

45  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the pyrolysis of municipal solid waste for the production of valuable products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 366-375.	5.5	177
2	Study of bio-oils and solids from flash pyrolysis of sewage sludges. <i>Fuel</i> , 2009, 88, 1344-1350.	6.4	167
3	Flash pyrolysis of heavy metal contaminated biomass from phytoremediation: Influence of temperature, entrained flow and wood/leaves blended pyrolysis on the behaviour of heavy metals. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 1-7.	5.5	125
4	Flash co-pyrolysis of biomass with polylactic acid. Part 1: Influence on bio-oil yield and heating value. <i>Fuel</i> , 2008, 87, 1031-1041.	6.4	112
5	A comparative techno-economic assessment of biochar production from different residue streams using conventional and microwave pyrolysis. <i>Bioresource Technology</i> , 2020, 318, 124083.	9.6	91
6	Development of alkali activated cements and concrete mixture design with high volumes of red mud. <i>Construction and Building Materials</i> , 2017, 151, 819-826.	7.2	90
7	Techno-economic assessment of fast pyrolysis for the valorization of short rotation coppice cultivated for phytoextraction. <i>Journal of Cleaner Production</i> , 2015, 88, 336-344.	9.3	85
8	Effect of NaOH content on hydration, mineralogy, porosity and strength in alkali/sulfate-activated binders from ground granulated blast furnace slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 132, 106054.	11.0	83
9	Characterisation of adsorbents prepared by pyrolysis of sludge and sludge/disposal filter cake mix. <i>Water Research</i> , 2012, 46, 2783-2794.	11.3	60
10	Slow catalytic pyrolysis of rapeseed cake: Product yield and characterization of the pyrolysis liquid. <i>Biomass and Bioenergy</i> , 2013, 57, 180-190.	5.7	60
11	Flash pyrolysis of heavy metal contaminated hardwoods from phytoremediation: Characterisation of biomass, pyrolysis oil and char/ash fraction. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 89, 22-29.	5.5	59
12	Flash pyrolysis of rapeseed cake: Influence of temperature on the yield and the characteristics of the pyrolysis liquid. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 118-125.	5.5	57
13	Alkali-activated binders based on ground granulated blast furnace slag and phosphogypsum. <i>Construction and Building Materials</i> , 2019, 215, 371-380.	7.2	56
14	Flash co-pyrolysis of biomass with polyhydroxybutyrate: Part 1. Influence on bio-oil yield, water content, heating value and the production of chemicals. <i>Fuel</i> , 2008, 87, 2523-2532.	6.4	53
15	Activated carbon from pyrolysis of brewer's spent grain: Production and adsorption properties. <i>Waste Management and Research</i> , 2014, 32, 634-645.	3.9	52
16	Microwave assisted and conventional pyrolysis of MDF " Characterization of the produced biochars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 138, 218-230.	5.5	52
17	Economic assessment of flash co-pyrolysis of short rotation coppice and biopolymer waste streams. <i>Journal of Environmental Management</i> , 2010, 91, 2736-2747.	7.8	50
18	Feasibility of incorporating phosphogypsum in ettringite-based binder from ladle slag. <i>Journal of Cleaner Production</i> , 2019, 237, 117793.	9.3	48

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19	Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/Organomodified Montmorillonite Nanocomposites for Potential Food Packaging Applications. <i>Journal of Polymers and the Environment</i> , 2016, 24, 104-118.	5.0	40
20	Flash co-pyrolysis of biomass: The influence of biopolymers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 87-97.	5.5	38
21	Effect of aromatics on the adsorption of thiophenic sulfur compounds from model diesel fuel by activated carbon cloth. <i>Fuel Processing Technology</i> , 2014, 119, 278-285.	7.2	37
22	Gas Permeability Properties of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Polymers and the Environment</i> , 2014, 22, 501-507.	5.0	32
23	Radiological characterization and evaluation of high volume bauxite residue alkali activated concretes. <i>Journal of Environmental Radioactivity</i> , 2017, 168, 21-29.	1.7	30
24	Implementation of alanine/EPR as transfer dosimetry system in a radiotherapy audit programme in Belgium. <i>Radiotherapy and Oncology</i> , 2011, 99, 94-96.	0.6	29
25	Activated carbon from co-pyrolysis of particle board and melamine (urea) formaldehyde resin: A techno-economic evaluation. <i>Chemical Engineering Journal</i> , 2011, 172, 835-846.	12.7	29
26	Water content of pyrolysis oil: Comparison between Karl Fischer titration, GC/MS-corrected azeotropic distillation and <sup>1</sup> H NMR spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 100-105.	5.5	29
27	Valorization of raspberry seed cake by flash and slow pyrolysis: Product yield and characterization of the liquid and solid fraction. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 107, 289-297.	5.5	29
28	Incorporating Cs and Sr into blast furnace slag inorganic polymers and their effect on matrix properties. <i>Journal of Nuclear Materials</i> , 2018, 503, 1-12.	2.7	26
29	Study of the pyrolysis of sludge and sludge/disposal filter cake mix for the production of value added products. <i>Bioresource Technology</i> , 2013, 134, 1-9.	9.6	25
30	Radiological and leaching assessment of an ettringite-based mortar from ladle slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 128, 105954.	11.0	24
31	Radon immobilization potential of alkali-activated materials containing ground granulated blast furnace slag and phosphogypsum. <i>Construction and Building Materials</i> , 2018, 184, 68-75.	7.2	22
32	The NORM4Building database, a tool for radiological assessment when using by-products in building materials. <i>Construction and Building Materials</i> , 2018, 159, 755-767.	7.2	21
33	Adsorption of cesium on different types of activated carbon. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 310, 301-310.	1.5	20
34	Radiological and non-radiological leaching assessment of alkali-activated materials containing ground granulated blast furnace slag and phosphogypsum. <i>Science of the Total Environment</i> , 2019, 660, 1098-1107.	8.0	18
35	The influence of porosity on radon emanation in alkali-activated mortars containing high volume bauxite residue. <i>Construction and Building Materials</i> , 2020, 230, 116982.	7.2	17
36	Poly(lactic acid) bio-composites containing biochar particles: Effects of fillers and plasticizer on crystallization and thermal properties. <i>EXPRESS Polymer Letters</i> , 2021, 15, 343-360.	2.1	17

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37	Rapeseed and Raspberry Seed Cakes as Inexpensive Raw Materials in the Production of Activated Carbon by Physical Activation: Effect of Activation Conditions on Textural and Phenol Adsorption Characteristics. <i>Materials</i> , 2016, 9, 565.	2.9	16
38	Enhanced cesium removal from real matrices by nickel-hexacyanoferrate modified activated carbons. <i>Chemosphere</i> , 2018, 202, 569-575.	8.2	16
39	Gamma exposure from building materials – A dose model with expanded gamma lines from naturally occurring radionuclides applicable in non-standard rooms. <i>Construction and Building Materials</i> , 2018, 159, 768-778.	7.2	16
40	Selective Desulfurization of Model Diesel Fuel by Carbon Nanoparticles as Adsorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 14419-14427.	3.7	15
41	Qualitative and Quantitative Analysis of Solid State Free Induction Decay (1H NMR) Curves Using a Combination of the Methods of Gardner and Prony: Isotactic Polypropylene as a Case Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1393-1401.	2.6	14
42	From NORM by-products to building materials. , 2017, , 183-252.		14
43	Numerical prediction of the mean residence time of solid materials in a pilot-scale rotary kiln. <i>Powder Technology</i> , 2019, 354, 392-401.	4.2	13
44	Alkali-activated materials for radionuclide immobilisation and the effect of precursor composition on Cs/Sr retention. <i>Journal of Nuclear Materials</i> , 2018, 510, 575-584.	2.7	12
45	Determination of homogeneity of the top surface deadlayer in an old HPGe detector. <i>Applied Radiation and Isotopes</i> , 2019, 147, 182-188.	1.5	12
46	The investigation of lithium formate hydrate, sodium dithionate and N-methyl taurine as clinical EPR dosimeters. <i>Radiation Measurements</i> , 2013, 59, 218-224.	1.4	11
47	From raw materials to NORM by-products. , 2017, , 135-182.		11
48	The effect of gamma radiation on the mechanical and microstructural properties of Fe-rich inorganic polymers. <i>Journal of Nuclear Materials</i> , 2019, 521, 126-136.	2.7	11
49	Characterization of activated carbons derived from short rotation hardwood pyrolysis char. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 101, 199-208.	5.5	10
50	Combining Monte Carlo simulations and experimental design for incorporating risk and uncertainty in investment decisions for cleantech: a fast pyrolysis case study. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 1195-1206.	4.1	10
51	Bio-Based Poly(3-hydroxybutyrate)/Thermoplastic Starch Composites as a Host Matrix for Biochar Fillers. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2478-2491.	5.0	10
52	Variation of natural radionuclides in non-ferrous fayalite slags during a one-month production period. <i>Journal of Environmental Radioactivity</i> , 2017, 172, 63-73.	1.7	9
53	The use of portable equipment for the activity concentration index determination of building materials: method validation and survey of building materials on the Belgian market. <i>Journal of Environmental Radioactivity</i> , 2014, 127, 56-63.	1.7	8
54	Chromium(VI) removal using in-situ nitrogenized activated carbon prepared from Brewers' spent grain. <i>Adsorption</i> , 2018, 24, 147-156.	3.0	8

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55	The effect of high dose rate gamma irradiation on the curing of CaO-Fe <sub>x</sub> O <sub>y</sub> -SiO <sub>2</sub> slag based inorganic polymers: Mechanical and microstructural analysis. Journal of Nuclear Materials, 2020, 539, 152237.	2.7	6
56	Micromechanical and microstructural analysis of Fe-rich plasma slag-based inorganic polymers. Cement and Concrete Composites, 2021, 118, 103968.	10.7	6
57	Application of silver-exchanged zeolite for radioxenon mitigation at fission-based medical isotope production facilities. Chemical Engineering Research and Design, 2022, 158, 576-588.	5.6	5
58	A statistical data-processing methodology of Py-GC/MS data for the simulation of flash co-pyrolysis reactor experiments. Chemometrics and Intelligent Laboratory Systems, 2012, 110, 123-128.	3.5	4
59	Activated Carbon by Co-pyrolysis and Steam Activation from Particle Board and Melamine Formaldehyde Resin: Production, Adsorption Properties and Techno Economic Evaluation. Journal of Sustainable Development of Energy, Water and Environment Systems, 2013, 1, 41-57.	1.9	3
60	The Use of Alkali Activated Materials in Nuclear Industry. , 2020, , 537-556.		1
61	A low-energy set-up for gamma-ray spectrometry of NORM tailored to the needs of a secondary smelting facility. Applied Radiation and Isotopes, 2017, 126, 296-299.	1.5	0
62	Removal of Heavy Metals in Water with Adsorbents Derived from Pig Manure. , 0, , .		0