Irena GrgiÄ

List of Publications by Year
in descending order

58 papers	1,733 citations	279798 23 h-index	289244 40 g-index
65 all docs	65 docs citations	65 times ranked	2076 citing authors

#	Article	IF	Citations
1	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. Chemical Reviews, 2015, 115, 3919-3983.	47.7	417
2	Liquid chromatography tandem mass spectrometry method for characterization of monoaromatic nitro-compounds in atmospheric particulate matter. Journal of Chromatography A, 2012, 1268, 35-43.	3.7	139
3	Development of a liquid chromatographic method based on ultravioletâ€“visible and electrospray ionization mass spectrometric detection for the identification of nitrocatechols and related tracers in biomass burning atmospheric organic aerosol. Rapid Communications in Mass Spectrometry, 2012, 26, 793-804.	1.5	61
4	Title is missing!. Journal of Atmospheric Chemistry, 1998, 29, 315-337.	3.2	60
5	Chemical characterization of the main products formed through aqueous-phase photonitration of guaiacol. Atmospheric Measurement Techniques, 2014, 7, 2457-2470.	3.1	57
6	Nighttime Aqueous-Phase Formation of Nitrocatechols in the Atmospheric Condensed Phase. Environmental Science & Technology, 2018, 52, 9722-9730.	10.0	57
7	Characterization of carboxylic acids in atmospheric aerosols using hydrophilic interaction liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2011, 1218, 4417-4425.	3.7	48
8	Quantum Chemical Calculations Resolved Identification of Methylnitrocatechols in Atmospheric Aerosols. Environmental Science & Technology, 2016, 50, 5526-5535.	10.0	47
9	Aqueous S(IV) oxidationâ€"I. Catalytic effects of some metal ions. Atmospheric Environment Part A General Topics, 1991, 25, 1591-1597.	1.3	45
10	Unraveling Pathways of Guaiacol Nitration in Atmospheric Waters: Nitrite, A Source of Reactive Nitronium Ion in the Atmosphere. Environmental Science & Technology, 2015, 49, 9150-9158.	10.0	44
11	Light induced multiphase chemistry of gas-phase ozone on aqueous pyruvic and oxalic acids. Physical Chemistry Chemical Physics, 2010, 12, 698-707.	2.8	43
12	Mechanistic Information on the Redox Cycling of Nickel(II/III) Complexes in the Presence of Sulfur Oxides and Oxygen. Correlation with DNA Damage Experiments. Inorganic Chemistry, 1999, 38, 3500-3505.	4.0	42
13	A Simple Kinetic Model for Autoxidation of S(IV) Oxides Catalyzed by Iron and/or Manganese Ions. Journal of Atmospheric Chemistry, 2001, 39, 155-170.	3.2	41
14	Iron-catalyzed oxidation of s(IV) species by oxygen in aqueous solution: Influence of pH on the redox cycling of iron. Atmospheric Environment, 1996, 30, 4191-4196.	4.1	39
15	Underappreciated and Complex Role of Nitrous Acid in Aromatic Nitration under Mild Environmental Conditions: The Case of Activated Methoxyphenols. Environmental Science & Technology, 2018, 52, 13756-13765.	10.0	37
16	Influence of ammonia on sulfate formation under haze conditions. Atmospheric Environment, 2004, 38, 2789-2795.	4.1	36
17	Aqueous S(IV) oxidationâ€"II. Synergistic effects of some metal ions. Atmospheric Environment Part A General Topics, 1992, 26, 571-577.	1.3	35
18	Size-Resolved Surface-Active Substances of Atmospheric Aerosol: Reconsideration of the Impact on Cloud Droplet Formation. Environmental Science & Technology, 2018, 52, 9179-9187.	10.0	31

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19	Chemical composition and hygroscopic properties of size-segregated aerosol particles collected at the Adriatic coast of Slovenia. Chemosphere, 2006, 63, 1193-1202.	8.2	30
20	Does toxicity of aromatic pollutants increase under remote atmospheric conditions?. Scientific Reports, 2015, 5, 8859.	3.3	30
21	Aqueous S(IV) oxidationâ€"III. Catalytic effect of soot particles. Atmospheric Environment Part A General Topics, 1993, 27, 1409-1416.	1.3	27
22	Size distribution of black (BC) and total carbon (TC) in Vienna and Ljubljana. Chemosphere, 2006, 65, 2106-2113.	8.2	26
23	Scavenging of SO4â˘' radical anions by mono- and dicarboxylic acids in the Mn(II)-catalyzed S(IV) oxidation in aqueous solution. Atmospheric Environment, 2007, 41, 9187-9194.	4.1	24
24	Aqueous-Phase Brown Carbon Formation from Aromatic Precursors under Sunlight Conditions. Atmosphere, 2020, 11, 131.	2.3	22
25	Seasonal variability of carbon in humic-like matter of ambient size-segregated water soluble organic aerosols from urban background environment. Atmospheric Environment, 2018, 173, 239-247.	4.1	21
26	Influence of NO2 and dissolved iron on the S(IV) oxidation in synthetic aqueous solution. Atmospheric Environment, 2001, 35, 97-104.	4.1	20
27	A multi-element mapping approach for size-segregated atmospheric particles using laser ablation ICP-MS combined with image analysis. Science of the Total Environment, 2008, 407, 594-602.	8.0	20
28	Influence of Atmospheric Carboxylic Acids on Catalytic Oxidation of Sulfur(IV). Journal of Atmospheric Chemistry, 2006, 54, 103-120.	3.2	19
29	Determination of sulfur oxides formed during the S(IV) oxidation in the presence of iron. Chemosphere, 2002, 49, 271-277.	8.2	17
30	Aqueous Oxidation of Sulfur(IV) Catalyzed by Manganese(II): A Generalized Simple Kinetic Model. Journal of Atmospheric Chemistry, 2004, 47, 287-303.	3.2	16
31	Chemical characterization of fine aerosols in respect to water-soluble ions at the eastern Middle Adriatic coast. Environmental Science and Pollution Research, 2020, 27, 10249-10264.	5.3	16
32	Influence of ionic strength on aqueous oxidation of SO2 catalyzed by manganese. Atmospheric Environment, 2003, 37, 2589-2595.	4.1	14
33	Influence of NO2 on S(IV) oxidation in aqueous suspensions of aerosol particles from two different origins. Atmospheric Environment, 2001, 35, 3897-3904.	4.1	13
34	Sulfate formation on synthetic deposits under haze conditions. Atmospheric Environment, 2003, 37, 3509-3516.	4.1	11
35	The heterogeneous ozonation of pesticides adsorbed on mineral particles: Validation of the experimental setup with trifluralin. Atmospheric Environment, 2011, 45, 7127-7134.	4.1	11
36	Electrochemistry as a Tool for Studies of Complex Reaction Mechanisms: The Case of the Atmospheric Aqueous-Phase Aging of Catechols. Environmental Science & Technology, 2019, 53, 11195-11203.	10.0	11

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37	Reaction Kinetics of Green Leaf Volatiles with Sulfate, Hydroxyl, and Nitrate Radicals in Tropospheric Aqueous Phase. Environmental Science & Technology, 2021, 55, 13666-13676.	10.0	10
38	Seasonal variability of nitroaromatic compounds in ambient aerosols: Mass size distribution, possible sources and contribution to water-soluble brown carbon light absorption. Chemosphere, 2022, 299, 134381.	8.2	10
39	Impact of air pollution on outdoor cultural heritage objects and decoding the role of particulate matter: a critical review. Environmental Science and Pollution Research, 2022, 29, 46405-46437.	5.3	10
40	Ozonation of isoproturon adsorbed on silica particles under atmospheric conditions. Atmospheric Environment, 2012, 61, 40-47.	4.1	9
41	Chemical and morphological characterization of aerosol particles at Mt. Krvavec, Slovenia, during the EyjafjallajÃ¶kull Icelandic volcanic eruption. Environmental Science and Pollution Research, 2012, 19, 235-243.	5.3	9
42	Measurements of aerosol particles in the Åkocjan Caves, Slovenia. Environmental Science and Pollution Research, 2014, 21, 1915-1923.	5.3	9
43	Metals in Aerosols. , 0, , 117-139.		8
44	Measurements of Size-Segregated Emission Particles by a Sampling System Based on the Cascade Impactor. Environmental Science & Technology, 2008, 42, 878-883.	10.0	8
45	Behaviour of mercury complexes in a graphite tube furnace for atomic absorption spectrometry. Analytica Chimica Acta, 1989, 226, 203-211.	5.4	5
46	Laser ablation ICP-MS of size-segregated atmospheric particles collected with a MOUDI cascade impactor: a proof of concept. Atmospheric Measurement Techniques, 2017, 10, 1823-1830.	3.1	5
47	Applying size segregation to relate the surrounding aerosol pollution to its source. Journal of Atmospheric Chemistry, 2009, 63, 247-257.	3.2	4
48	An integrated experimental-modeling approach to study the acid leaching behavior of lead from sub-micrometer lead silicate glass particles. Journal of Hazardous Materials, 2013, 262, 240-249.	12.4	4
49	Indoor Nanoparticles Measurements in Workplace Environment: The Case of Printing and Photocopy Center. Acta Chimica Slovenica, 2016, 63, 327-334.	0.6	4
50	The role of atmospheric aerosols in SO2 oxidation: Catalytic effect of iron in the presence of organic ligands. Journal of Aerosol Science, 1996, 27, S657-S658.	3.8	3
51	Chemical composition of fog and solid atmospheric particles collected during fog episodes in Ljubljana. Journal of Aerosol Science, 1989, 20, 1261-1264.	3.8	2
52	The role of aerosol composition in the chemical processes in the atmosphere. Chemosphere, 1999, 38, 1233-1240.	8.2	2
53	The role of soluble constituents of atmospheric aerosols in, aqueous phase oxidation mechanism of SO2. Journal of Aerosol Science, 1997, 28, S111-S112.	3.8	0
54	Water soluble fraction of iron and oxalate in atmospheric aerosols and its effect on SO2 oxidation. Journal of Aerosol Science, 1998, 29, S1029-S1030.	3.8	0

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55	ROLE OF SOME ATMOSPHERIC ORGANIC CONSTITUENTS ON CATALYTIC SO2 OXIDATION. Journal of Aerosol Science, 2004, 35, S867-S868.	3.8	0
56	Comment on â€œHydroxycarboxylic Acid-Derived Organosulfates: Synthesis, Stability and Quantification in Ambient Aerosolâ€• Environmental Science & Technology, 2011, 45, 9109-9110.	10.0	0
57	Atmospheric Aqueous-Phase Chemistry. Atmosphere, 2021, 12, 3.	2.3	0
58	Chemical composition and sources of organic aerosol on the Adriatic coast in Croatia. Atmospheric Environment: X, 2022, 13, 100159.	1.4	0