

George Biskos

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

3,819
citations

147566

31
h-index

138251

58
g-index

101
all docs

101
docs citations

101
times ranked

5311
citing authors

#	ARTICLE	IF	CITATIONS
1	The rise of low-cost sensing for managing air pollution in cities. <i>Environment International</i> , 2015, 75, 199-205.	4.8	597
2	Plasmonic nanoparticle-semiconductor composites for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17891-17912.	5.2	165
3	Prompt deliquescence and efflorescence of aerosol nanoparticles. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4633-4642.	1.9	158
4	Nanosize Effect on the Deliquescence and the Efflorescence of Sodium Chloride Particles. <i>Aerosol Science and Technology</i> , 2006, 40, 97-106.	1.5	142
5	Phase Transitions of Single Salt Particles Studied Using a Transmission Electron Microscope with an Environmental Cell. <i>Aerosol Science and Technology</i> , 2005, 39, 849-856.	1.5	118
6	Ozonolysis of Mixed Oleic-Acid/Stearic-Acid Particles: A Reaction Kinetics and Chemical Morphology. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10910-10919.	1.1	111
7	Real-time sensors for indoor air monitoring and challenges ahead in deploying them to urban buildings. <i>Science of the Total Environment</i> , 2016, 560-561, 150-159.	3.9	111
8	Unipolar diffusion charging of aerosol particles in the transition regime. <i>Journal of Aerosol Science</i> , 2005, 36, 247-265.	1.8	102
9	Nanosize effect on the hygroscopic growth factor of aerosol particles. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	100
10	Hot Carrier Generation and Extraction of Plasmonic Alloy Nanoparticles. <i>ACS Photonics</i> , 2017, 4, 1146-1152.	3.2	97
11	Enhancement of the Photoelectrochemical Performance of CuWO ₄ Thin Films for Solar Water Splitting by Plasmonic Nanoparticle Functionalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2096-2104.	1.5	90
12	Description and Theoretical Analysis of a Differential Mobility Spectrometer. <i>Aerosol Science and Technology</i> , 2005, 39, 527-541.	1.5	86
13	Cloud droplet activation of mixed organic-sulfate particles produced by the photooxidation of isoprene. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3953-3964.	1.9	86
14	Generation and Sizing of Particles for Aerosol-Based Nanotechnology. <i>KONA Powder and Particle Journal</i> , 2008, 26, 13-35.	0.9	82
15	Biomass-burning impact on CCN number, hygroscopicity and cloud formation during summertime in the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7389-7409.	1.9	76
16	Toward industrial scale synthesis of ultrapure singlet nanoparticles with controllable sizes in a continuous gas-phase process. <i>Scientific Reports</i> , 2015, 5, 15788.	1.6	75
17	Climatology and trends of aerosol optical depth over the Mediterranean basin during the last 12 years (2002-2014) based on Collection 006 MODIS-Aqua data. <i>Science of the Total Environment</i> , 2016, 551-552, 292-303.	3.9	68
18	Can disc diffusion susceptibility tests assess the antimicrobial activity of engineered nanoparticles?. <i>Journal of Nanoparticle Research</i> , 2018, 20, 62.	0.8	56

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19	New particle formation in the southern Aegean Sea during the Etesians: importance for CCN production and cloud droplet number. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 175-192.	1.9	55
20	Vertical profiles of aerosol mass concentration derived by unmanned airborne in situ and remote sensing instruments during dust events. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2897-2910.	1.2	50
21	Metal oxide semiconducting nanomaterials for air quality gas sensors: operating principles, performance, and synthesis techniques. <i>Mikrochimica Acta</i> , 2022, 189, 196.	2.5	46
22	Characterization of Tungsten Oxide Thin Films Produced by Spark Ablation for NO ₂ Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3933-3939.	4.0	44
23	Monte-Carlo simulation of unipolar diffusion charging for spherical and non-spherical particles. <i>Journal of Aerosol Science</i> , 2004, 35, 707-730.	1.8	42
24	Electrostatic characterisation of corona-wire aerosol chargers. <i>Journal of Electrostatics</i> , 2005, 63, 69-82.	1.0	41
25	General Approach to the Evolution of Singlet Nanoparticles from a Rapidly Quenched Point Source. <i>Journal of Physical Chemistry C</i> , 2016, 120, 621-630.	1.5	41
26	Scalable and Environmentally Benign Process for Smart Textile Nanofinishing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14756-14765.	4.0	39
27	Indirect evidence of the composition of nucleation mode atmospheric particles in the high Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 965-975.	1.2	37
28	Particulate matter and health effects in offices - A review. <i>Building and Environment</i> , 2019, 156, 62-73.	3.0	35
29	Theoretical investigation of X ₁₂ O ₁₂ (X=Be, Mg, and Ca) in sensing CH ₂ N ₂ : A DFT study. <i>Computational and Theoretical Chemistry</i> , 2021, 1198, 113168.	1.1	35
30	Hygroscopic growth of nucleation-mode acidic sulfate particles. <i>Journal of Aerosol Science</i> , 2009, 40, 338-347.	1.8	33
31	Engineered Nanomaterials: Knowledge Gaps in Fate, Exposure, Toxicity, and Future Directions. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-16.	1.5	33
32	The Role of Size and Dimerization of Decorating Plasmonic Silver Nanoparticles on the Photoelectrochemical Solar Water Splitting Performance of BiVO ₄ Photoanodes. <i>ChemNanoMat</i> , 2016, 2, 739-747.	1.5	33
33	Atomic Cluster Generation with an Atmospheric Pressure Spark Discharge Generator. <i>Aerosol Science and Technology</i> , 2015, 49, 886-894.	1.5	32
34	Chemical composition and hygroscopic properties of aerosol particles over the Aegean Sea. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11595-11608.	1.9	31
35	Atmospheric composition in the Eastern Mediterranean: Influence of biomass burning during summertime using the WRF-Chem model. <i>Atmospheric Environment</i> , 2016, 132, 317-331.	1.9	31
36	Enhancing the detection efficiency of condensation particle counters for sub-2 nm particles. <i>Journal of Aerosol Science</i> , 2018, 117, 44-53.	1.8	31

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37	Enhancing the absorption of 1-chloro-1,2,2,2-tetrafluoroethane on carbon nanotubes: an ab initio study. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	31
38	Characterization of Nb-doped WO ₃ thin films produced by Electrostatic Spray Deposition. <i>Thin Solid Films</i> , 2013, 534, 32-39.	0.8	30
39	Physical and chemical processes of air masses in the Aegean Sea during Etesians: Aegean-GAME airborne campaign. <i>Science of the Total Environment</i> , 2015, 506-507, 201-216.	3.9	30
40	Assessment of factors influencing PM mass concentration measured by gravimetric & beta attenuation techniques at a suburban site. <i>Atmospheric Environment</i> , 2016, 131, 409-417.	1.9	30
41	Internally mixed nanoparticles from oscillatory spark ablation between electrodes of different materials. <i>Aerosol Science and Technology</i> , 2018, 52, 505-514.	1.5	30
42	A comprehensive investigation of the intermolecular interactions between CH ₂ N ₂ and X ₁₂ Y ₁₂ (X = B, Al, Ga; Y = N, P, As) nanocages. <i>Canadian Journal of Chemistry</i> , 2021, 99, 733-741.	0.6	30
43	Green manufacturing of metallic nanoparticles: a facile and universal approach to scaling up. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11222-11227.	5.2	29
44	Magnetic Phase Transition in Spark-Produced Ternary LaFeSi Nanoalloys. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6073-6078.	4.0	29
45	Estimation of the emissions by transport in two port cities of the northeastern Mediterranean, Greece. <i>Environmental Pollution</i> , 2020, 257, 113598.	3.7	29
46	Optical hydrogen sensing with nanoparticulate Pd-Au films produced by spark ablation. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 290-296.	4.0	26
47	Airborne Engineered Nanoparticles: Potential Risks and Monitoring Challenges for Assessing their Impacts on Children. <i>Paediatric Respiratory Reviews</i> , 2012, 13, 79-83.	1.2	25
48	Particulate matter pollution from aviation-related activity at a small airport of the Aegean Sea Insular Region. <i>Science of the Total Environment</i> , 2017, 596-597, 187-193.	3.9	23
49	Dewatering of wastewater sludge through a solar still. <i>Renewable Energy</i> , 2002, 26, 247-256.	4.3	22
50	Nanoparticle emissions from traditional pottery manufacturing. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1489-1494.	1.7	21
51	Performance evaluation of the cost-effective and lightweight Alphasense optical particle counter for use onboard unmanned aerial vehicles. <i>Aerosol Science and Technology</i> , 2018, 52, 385-392.	1.5	21
52	The Unmanned Systems Research Laboratory (USRL): A New Facility for UAV-Based Atmospheric Observations. <i>Atmosphere</i> , 2021, 12, 1042.	1.0	21
53	A Cost-Effective Electrostatic Precipitator for Aerosol Nanoparticle Segregation. <i>Aerosol Science and Technology</i> , 2015, 49, iv-vi.	1.5	20
54	Summertime particulate matter and its composition in Greece. <i>Atmospheric Environment</i> , 2019, 213, 597-607.	1.9	20

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55	Particle number size distribution statistics at City-Centre Urban Background, urban background, and remote stations in Greece during summer. <i>Atmospheric Environment</i> , 2019, 213, 711-726.	1.9	19
56	Workplace Exposure to Nanoparticles during Thermal Spraying of Ceramic Coatings. <i>Annals of Work Exposures and Health</i> , 2019, 63, 91-106.	0.6	19
57	Comparison of particle size distributions and volatile organic compounds exhaled by e-cigarette and cigarette users. <i>Journal of Aerosol Science</i> , 2020, 141, 105487.	1.8	19
58	Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9223-9251.	1.9	19
59	Airborne ultrafine particles in a naturally ventilated metro station: Dominant sources and mixing state determined by particle size distribution and volatility measurements. <i>Environmental Pollution</i> , 2018, 239, 82-94.	3.7	16
60	Nucleation events at a coastal city during the warm period: Kerbside versus urban background measurements. <i>Atmospheric Environment</i> , 2016, 140, 60-68.	1.9	15
61	Methods for Assessing Basic Particle Properties and Cytotoxicity of Engineered Nanoparticles. <i>Toxics</i> , 2014, 2, 79-91.	1.6	14
62	Aerosol chemistry above an extended archipelago of the eastern Mediterranean basin during strong northern winds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8401-8421.	1.9	13
63	Lightweight differential mobility analyzers: Toward new and inexpensive manufacturing methods. <i>Aerosol Science and Technology</i> , 2016, 50, 2-5.	1.5	13
64	Toxicity of pure silver nanoparticles produced by spark ablation on the aquatic plant <i>Lemna minor</i> . <i>Journal of Aerosol Science</i> , 2019, 128, 17-21.	1.8	13
65	Performance comparison of two thermodenuders in Volatility Tandem DMA measurements. <i>Journal of Aerosol Science</i> , 2016, 92, 38-52.	1.8	12
66	Effect of Al- and Ga-doping on the adsorption of H_2SiCl_2 onto the outer surface of boron nitride nanotube: a DFT study. <i>Comptes Rendus Chimie</i> , 2021, 24, 291-304.	0.2	12
67	Relative humidity non-uniformities in Hygroscopic Tandem Differential Mobility Analyzer measurements. <i>Journal of Aerosol Science</i> , 2016, 101, 1-9.	1.8	11
68	Particulate pollution transport episodes from Eurasia to a remote region of northeast Mediterranean. <i>Atmospheric Environment</i> , 2016, 128, 45-52.	1.9	11
69	Out-scaling electrohydrodynamic atomization systems for the production of well-defined droplets. <i>Powder Technology</i> , 2011, 214, 382-387.	2.1	10
70	Investigation of Turbulence Parametrization Schemes with Reference to the Atmospheric Boundary Layer Over the Aegean Sea During Etesian Winds. <i>Boundary-Layer Meteorology</i> , 2017, 164, 303-329.	1.2	9
71	Hygroscopic properties of potassium-halide nanoparticles. <i>Aerosol Science and Technology</i> , 2018, 52, 536-545.	1.5	9
72	The Multiple Monodisperse Outlet Differential Mobility Analyzer: Derivation of Its Transfer Function and Resolution. <i>Aerosol Science and Technology</i> , 2012, 46, 951-965.	1.5	8

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73	Contribution of locally-produced and transported air pollution to particulate matter in a small insular coastal city. <i>Atmospheric Pollution Research</i> , 2020, 11, 667-678.	1.8	8
74	The Nano-Particle Mass Classifier (Nano-PMC): Development, Characterization, and Application for Determining the Mass, Apparent Density, and Shape of Particles with Masses Down to the Zeptogram Range. <i>Aerosol Science and Technology</i> , 2015, 49, 495-507.	1.5	7
75	Thin Film and Nanostructured Pd-Based Materials for Optical H ₂ Sensors: A Review. <i>Nanomaterials</i> , 2021, 11, 3100.	1.9	7
76	Linking indoor particulate matter and black carbon with sick building syndrome symptoms in a public office building. <i>Atmospheric Pollution Research</i> , 2022, 13, 101292.	1.8	7
77	A tunable high-pass filter for simple and inexpensive size-segregation of sub-10-nm nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45678.	1.6	6
78	Long-term observations of the background aerosol at Cabauw, The Netherlands. <i>Science of the Total Environment</i> , 2018, 625, 752-761.	3.9	6
79	Heavy metals inhalation exposure analysis from particulate matter emitted from dry and wet recycling processes of waste electrical and electronic equipment. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13265.	1.3	6
80	Particle size distributions and hygroscopic restructuring of ultrafine particles emitted during thermal spraying. <i>Aerosol Science and Technology</i> , 2020, 54, 1359-1372.	1.5	6
81	Connectivity enhancement of highly porous WO ₃ nanostructured thin films by in situ growth of K _{0.33} WO ₃ nanowires. <i>CrystEngComm</i> , 2014, 16, 1228-1231.	1.3	5
82	Modification of the TSI 3081 differential mobility analyzer to include three monodisperse outlets: Comparison between experimental and theoretical performance. <i>Aerosol Science and Technology</i> , 2016, 50, 1342-1351.	1.5	5
83	New method for the protection and restoration of calcareous cultural heritage stones by polyelectrolytes and hydroxyapatite nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 604-615.	5.0	5
84	Comparison Between the Theoretical and Experimental Performance of a Differential Mobility Analyzer with Three Monodisperse-Particle Outlets. <i>Aerosol Science and Technology</i> , 2013, 47, 406-416.	1.5	4
85	Characterization of atmospheric-pressure spark generated atomic silver and gold clusters by time-of-flight mass spectrometry. <i>Journal of Aerosol Science</i> , 2021, 156, 105780.	1.8	4
86	Physical and Chemical Processes of Polluted Air Masses During Etesians: Aegean-Game Airborne Campaign – An Outline. <i>Springer Atmospheric Sciences</i> , 2013, , 1239-1244.	0.4	4
87	Temperature and pressure effects on the performance of the portable TSI 3007 condensation particle counter: Implications on ground and aerial observations. <i>Journal of Aerosol Science</i> , 2022, 159, 105877.	1.8	3
88	Qualification of the Alphasense optical particle counter for inline air quality monitoring. <i>Aerosol Science and Technology</i> , 2021, 55, 361-370.	1.5	3
89	The regime of Aerosol Optical Depth and Å...ngstrÅm exponent over Central and South Asia. <i>E3S Web of Conferences</i> , 2019, 99, 01003.	0.2	2
90	Improved performance of Differential Mobility Analyzers with 3D-printed flow straighteners. <i>Journal of Aerosol Science</i> , 2020, 145, 105545.	1.8	2

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91	Air Pollution Modeling in a North Aegean City: Effects of the Transportation System on Local Air Quality. Springer Atmospheric Sciences, 2017, , 1093-1098.	0.4	1
92	Solar Irradiance Prediction over the Aegean Sea: Shortwave Parameterization Schemes and Aerosol Radiation Feedback. Springer Proceedings in Complexity, 2018, , 141-145.	0.2	1
93	Nanoparticles and Nanoparticle-Based Materials Produced by Spark Ablation for Environmental Gas Sensors. , 2019, , 335-353.		1
94	Synthesis of mesostructured thin films by ionic wind assisted electrostatic spray deposition. Particuology, 2016, 27, 128-132.	2.0	0
95	Performance evaluation of a 3D-printed sharp-cut cyclone. Environmental Sciences: Processes and Impacts, 2022, 24, 1173-1180.	1.7	0