

# Sergei Preis

## List of Publications by Year in descending order

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70  
papers

1,298  
citations

361413

20  
h-index

414414

32  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of biochemical processes in coking wastewater treatment: A combined evaluation of material and energy efficiencies and secondary pollution. <i>Science of the Total Environment</i> , 2022, 807, 151072.	8.0	13
2	High-strength fuel pellets made of flour milling and coal slack wastes. <i>Energy</i> , 2022, 243, 123071.	8.8	3
3	Zero valent boron activated ozonation for ultra-fast degradation of organic pollutants: Atomic orbital matching, oxygen spillover and intra-electron transfer. <i>Chemical Engineering Journal</i> , 2022, 434, 134674.	12.7	13
4	Oxidation of Aqueous Dexamethasone Solution by Gas-Phase Pulsed Corona Discharge. <i>Water (Switzerland)</i> , 2022, 14, 467.	2.7	1
5	Oxidation of aqueous bisphenols A and S by pulsed corona discharge: Impacts of process control parameters and oxidation products identification. <i>Chemical Engineering Journal</i> , 2022, 438, 135602.	12.7	7
6	Oxidation of aqueous p-Nitroaniline by pulsed corona discharge. <i>Separation and Purification Technology</i> , 2022, 297, 121473.	7.9	8
7	Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water. <i>Chemical Engineering Research and Design</i> , 2022, 165, 22-30.	5.6	5
8	Oxidation of ubiquitous aqueous pharmaceuticals with pulsed corona discharge. <i>Journal of Electrostatics</i> , 2021, 110, 103567.	1.9	5
9	Oxidation of Aqueous Toluene by Gas-Phase Pulsed Corona Discharge in Air-Water Mixtures Followed by Photocatalytic Exhaust Air Cleaning. <i>Catalysts</i> , 2021, 11, 549.	3.5	2
10	Oxidation of aqueous N-nitrosodiethylamine: Experimental comparison of pulsed corona discharge with H <sub>2</sub> O <sub>2</sub> -assisted ozonation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105102.	6.7	4
11	Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge affected by sodium dodecyl sulphate: Explanation of variability. <i>Journal of Electrostatics</i> , 2021, 111, 103581.	1.9	3
12	Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge. <i>Chemical Engineering Journal</i> , 2021, 411, 128586.	12.7	13
13	Degradation of aqueousalachlor in pulsed corona discharge. <i>Journal of Electrostatics</i> , 2021, 109, 103543.	1.9	4
14	Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive experimental and theoretical study. <i>Separation and Purification Technology</i> , 2020, 232, 115956.	7.9	46
15	Selection of optimum biological treatment for coking wastewater using analytic hierarchy process. <i>Science of the Total Environment</i> , 2020, 742, 140400.	8.0	41
16	Graphene oxide-terminated hyperbranched amino polymer-carboxymethyl cellulose ternary nanocomposite for efficient removal of heavy metals from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 581-592.	7.5	42
17	Oxidation of reactive azo-dyes with pulsed corona discharge: Surface reaction enhancement. <i>Journal of Electrostatics</i> , 2020, 103, 103420.	1.9	20
18	Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis. <i>Chemosphere</i> , 2020, 253, 126767.	8.2	71

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19	Advances in characteristics analysis, measurement methods and modelling of flow dynamics in airlift reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 144, 107633.	3.6	21
20	Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater. <i>Chemosphere</i> , 2019, 228, 128-138.	8.2	29
21	Surfactant and non-surfactant radical scavengers in aqueous reactions induced by pulsed corona discharge treatment. <i>Journal of Electrostatics</i> , 2019, 98, 82-86.	1.9	10
22	Acquisition of O <sub>2</sub> adsorption isotherms as thorough characterization of nanocrystalline titanium dioxide photocatalysts. <i>Surfaces and Interfaces</i> , 2019, 14, 44-49.	3.0	0
23	Adsorption of Cd <sup>2+</sup> by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids. <i>RSC Advances</i> , 2018, 8, 8950-8960.	3.6	42
24	Hospital wastewater treatment with pilot-scale pulsed corona discharge for removal of pharmaceutical residues. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1569-1577.	6.7	68
25	Solubilization of polycyclic aromatic hydrocarbons (PAHs) with phenol in coking wastewater treatment system: Interaction and engineering significance. <i>Science of the Total Environment</i> , 2018, 628-629, 467-473.	8.0	48
26	Simultaneous nitrite and ammonium production in an autotrophic partial denitrification and ammonification of wastewaters containing thiocyanate. <i>Bioresource Technology</i> , 2018, 252, 20-27.	9.6	32
27	Pulsed corona discharge for improving treatability of coking wastewater. <i>Journal of Environmental Sciences</i> , 2018, 64, 306-316.	6.1	17
28	Transformation of natural and synthetic dyes in pulsed electric discharge in the granular steel bed. <i>Journal of Electrostatics</i> , 2018, 96, 90-98.	1.9	4
29	Spark erosion in a metal spheres bed: Experimental study of the discharge stability and energy efficiency. <i>Journal of Electrostatics</i> , 2018, 96, 111-118.	1.9	19
30	Facile preparation of nitrogen and sulfur co-doped graphene-based aerogel for simultaneous removal of Cd <sup>2+</sup> and organic dyes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21164-21175.	5.3	34
31	Gas-phase photocatalytic oxidation of refractory VOCs mixtures: Through the net of process limitations. <i>Catalysis Today</i> , 2017, 280, 93-98.	4.4	31
32	Mechanistic evaluation of ferrite AFe <sub>2</sub> O <sub>4</sub> (A = Co, Ni, Cu, and Zn) catalytic performance in oxalic acid ozonation. <i>Applied Catalysis A: General</i> , 2017, 547, 60-68.	4.3	59
33	Stability and energy efficiency of pulsed corona discharge in treatment of dispersed high-conductivity aqueous solutions. <i>Journal of Electrostatics</i> , 2017, 89, 42-50.	1.9	14
34	Pulsed Corona Discharge Induced Hydroxyl Radical Transfer Through the Gas-Liquid Interface. <i>Scientific Reports</i> , 2017, 7, 16152.	3.3	23
35	Aqueous Benzene Oxidation in Low-Temperature Plasma of Pulsed Corona Discharge. <i>Journal of Advanced Oxidation Technologies</i> , 2016, 19, .	0.5	3
36	Pulsed corona discharge oxidation of aqueous carbamazepine micropollutant. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2072-2081.	2.2	8

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37	Pulsed Corona Discharge in Water Treatment: The Effect of Hydrodynamic Conditions on Oxidation Energy Efficiency. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7452-7458.	3.7	31
38	Formation of Nitrates in Aqueous Solutions Treated with Pulsed Corona Discharge: The Impact of Organic Pollutants. <i>Ozone: Science and Engineering</i> , 2014, 36, 94-99.	2.5	17
39	Photocatalytic decomposition of humic acids in anoxic aqueous solutions producing hydrogen, oxygen and light hydrocarbons. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2237-2243.	2.2	9
40	Selective performance of sol-gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants. <i>Kinetics and Catalysis</i> , 2014, 55, 47-55.	1.0	8
41	Pulsed corona discharge oxidation of aqueous lignin: decomposition and aldehydes formation. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 171-176.	2.2	16
42	Aqueous Dissolved Oil Fraction Removed with Pulsed Corona Discharge. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 7263-7267.	3.7	6
43	Aqueous photocatalytic oxidation of prednisolone. <i>Open Chemistry</i> , 2013, 11, 1620-1633.	1.9	6
44	Oxidation of aqueous pharmaceuticals by pulsed corona discharge. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 923-930.	2.2	50
45	Oxidation of Aqueous Paracetamol by Pulsed Corona Discharge. <i>Ozone: Science and Engineering</i> , 2013, 35, 116-124.	2.5	25
46	Aqueous Photocatalytic Oxidation of Doxycycline. <i>Journal of Advanced Oxidation Technologies</i> , 2013, 16, .	0.5	1
47	Gas-phase photocatalytic activity of nanostructured titanium dioxide from flame aerosol synthesis. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 1-9.	20.2	13
48	Pulsed corona discharge for degradation of aqueous humic substances. <i>Water Science and Technology: Water Supply</i> , 2011, 11, 238-245.	2.1	23
49	Gas-phase Photocatalytic Oxidation of Acrylonitrile on Sulphated TiO <sub>2</sub> : Continuous Flow and Transient Study. <i>Catalysis Letters</i> , 2011, 141, 309-315.	2.6	11
50	The Cost Evaluation of Advanced Oxidation Processes in Laboratory and Pilot-Scale Experiments. <i>Ozone: Science and Engineering</i> , 2011, 33, 211-223.	2.5	36
51	The synthesis of sulphur and boron-containing titania photocatalysts and the evaluation of their photocatalytic activity. <i>Catalysis Communications</i> , 2010, 11, 715-720.	3.3	13
52	The influence of titanium dioxide modifications on photocatalytic oxidation of lignin and humic acids. <i>Catalysis Today</i> , 2009, 144, 26-30.	4.4	40
53	Gas-phase photocatalytic oxidation of acrylonitrile. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 600-603.	2.9	16
54	Selective Photocatalytic Oxidation of Steroid Estrogens in the Presence of Copollutants in the Sanitary Fraction of Domestic Sewage. <i>International Journal of Photoenergy</i> , 2007, 2007, 1-8.	2.5	3

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55	Aqueous Photocatalytic Oxidation of Lignin: The Influence of Mineral Admixtures. International Journal of Photoenergy, 2007, 2007, 1-7.	2.5	17
56	Gas-Phase and Aqueous Photocatalytic Oxidation of Methylamine: The Reaction Pathways. International Journal of Photoenergy, 2007, 2007, 1-6.	2.5	5
57	Gas-Phase Photocatalytic Oxidation of Dimethylamine: The Reaction Pathway and Kinetics. International Journal of Photoenergy, 2007, 2007, 1-4.	2.5	1
58	Selective photocatalytic oxidation of steroid estrogens in presence of saccharose and ethanol as co-pollutants. Environmental Chemistry Letters, 2007, 5, 219-224.	16.2	14
59	Aqueous photocatalytic oxidation of lignin and humic acids with supportedTiO2. International Journal of Photoenergy, 2006, 2006, 1-7.	2.5	15
60	Catalytic TiO2 oxidation of ethanethiol for environmentally benign air pollution control of sulphur compounds. Environmental Chemistry Letters, 2006, 4, 107-110.	16.2	20
61	Photocatalytic oxidation of gas-phase methyl tert-butyl ether and tert-butyl alcohol. Applied Catalysis B: Environmental, 2006, 64, 79-87.	20.2	11
62	The dependence on temperature of gas-phase photocatalytic oxidation of methyl tert-butyl ether and tert-butyl alcohol. Catalysis Today, 2005, 101, 353-358.	4.4	11
63	The role of pH in aqueous photocatalytic oxidation of 17 $\beta$ -estradiol. International Journal of Photoenergy, 2005, 7, 187-191.	2.5	16
64	Gas-phase degradation of CCl <sub>4</sub> , CHCl <sub>3</sub> and CH <sub>2</sub> Cl <sub>2</sub> over metallic Fe. Environmental Chemistry Letters, 2004, 2, 9-13.	16.2	3
65	Photocatalytic oxidation of humic substances with TiO <sub>2</sub> -coated glass micro-spheres. Environmental Chemistry Letters, 2004, 2, 123-127.	16.2	18
66	Gas-Phase Photocatalytic Oxidation of Styrene in a Simple Tubular TiO <sub>2</sub> Reactor. Journal of Advanced Oxidation Technologies, 2003, 6, .	0.5	2
67	Treatment of Phenolic and Aromatic Amino Compounds in Polluted Waters by Photocatalytic Oxidation. Journal of Advanced Oxidation Technologies, 2002, 5, .	0.5	2
68	Laboratory study of bioremediation of rocket fuel-polluted groundwater. Water Research, 1999, 33, 1303-1313.	11.3	14
69	Photocatalytic oxidation of phenolic compounds in wastewater from oil shale treatment. Water Science and Technology, 1997, 35, 165-174.	2.5	43
70	Photocatalytic oxidation of aromatic aminocompounds in aqueous solutions and groundwater from abandoned military bases. Water Science and Technology, 1997, 35, 265-272.	2.5	19