

Simo Olavi Pehkonen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

5,779
citations

46
h-index

75
g-index

92
ext. papers

6,217
ext. citations

6
avg, IF

5.83
L-index

#	Paper	IF	Citations
92	The chemistry of atmospheric mercury: a review. <i>Atmospheric Environment</i> , 1999 , 33, 2067-2079	5.3	456
91	Photocatalytic oxidation of arsenic(III): evidence of hydroxyl radicals. <i>Environmental Science & Technology</i> , 2005 , 39, 1827-34	10.3	259
90	Scientific uncertainties in atmospheric mercury models I: Model science evaluation. <i>Atmospheric Environment</i> , 2006 , 40, 2911-2928	5.3	206
89	Lysozyme-coupled poly(poly(ethylene glycol) methacrylate)-stainless steel hybrids and their antifouling and antibacterial surfaces. <i>Langmuir</i> , 2011 , 27, 2761-74	4	179
88	Microbiologically influenced corrosion of 304 stainless steel by aerobic <i>Pseudomonas</i> NCIMB 2021 bacteria: AFM and XPS study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 59, 87-99	6	178
87	Superhydrophobic CuO nanoneedle-covered copper surfaces for anticorrosion. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4374-4388	13	168
86	The influence of sulphate-reducing bacteria biofilm on the corrosion of stainless steel AISI 316. <i>Corrosion Science</i> , 2007 , 49, 2159-2176	6.8	167
85	Photoreduction of iron oxyhydroxides in the presence of important atmospheric organic compounds. <i>Environmental Science & Technology</i> , 1993 , 27, 2056-2062	10.3	162
84	The Degradation of Organophosphorus Pesticides in Natural Waters: A Critical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2002 , 32, 17-72	11.1	153
83	Superhydrophobic fluoropolymer-modified copper surface via surface graft polymerisation for corrosion protection. <i>Corrosion Science</i> , 2011 , 53, 2738-2747	6.8	148
82	Peracids in water treatment: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 1-39	11.1	133
81	Photocatalytic inactivation of Gram-positive and Gram-negative bacteria using fluorescent light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 186, 335-341	4.7	118
80	Surface characterization and corrosion behavior of 70/30 Cu/Ni alloy in pristine and sulfide-containing simulated seawater. <i>Corrosion Science</i> , 2007 , 49, 1276-1304	6.8	117
79	Surface chemistry and corrosion behaviour of 304 stainless steel in simulated seawater containing inorganic sulphide and sulphate-reducing bacteria. <i>Corrosion Science</i> , 2013 , 74, 353-366	6.8	111
78	The influence of ionic strength, nutrients and pH on bacterial adhesion to metals. <i>Journal of Colloid and Interface Science</i> , 2008 , 321, 256-64	9.3	106
77	Aqueous free radical chemistry of mercury in the presence of iron oxides and ambient aerosol. <i>Atmospheric Environment</i> , 1997 , 31, 4125-4137	5.3	104
76	Redox chemistry of iron in fog and stratus clouds. <i>Journal of Geophysical Research</i> , 1993 , 98, 18423-18434	10.4	104

75	Iron photochemistry of aqueous suspensions of ambient aerosol with added organic acids. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 3271-3279	5.5	94
74	Nanostructured TiO ₂ /CuO dual-coated copper meshes with superhydrophilic, underwater superoleophobic and self-cleaning properties for highly efficient oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 328, 497-510	14.7	86
73	Effects of ring substituents on the protective properties of self-assembled benzenethiols on copper. <i>Corrosion Science</i> , 2006 , 48, 840-862	6.8	86
72	Aqueous Photochemistry of Mercury with Organic Acids. <i>Journal of the Air and Waste Management Association</i> , 1998 , 48, 144-150	2.4	85
71	Determination of the oxidation states of iron in natural waters. A review. <i>Analyst, The</i> , 1995 , 120, 2655	5	85
70	Purification of phenol-contaminated water by adsorption with quaternized poly(dimethylaminopropyl methacrylamide)-grafted PVBC microspheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4620-4636	13	81
69	The influence of the marine aerobic Pseudomonas strain on the corrosion of 70/30 CuNi alloy. <i>Corrosion Science</i> , 2007 , 49, 4352-4385	6.8	81
68	Simultaneous spectrophotometric measurement of iron(II) and iron(III) in atmospheric water. <i>Environmental Science & Technology</i> , 1992 , 26, 1731-1736	10.3	80
67	Degradation of monomethylmercury chloride by hydroxyl radicals in simulated natural waters. <i>Water Research</i> , 2003 , 37, 2496-504	12.5	76
66	Kinetics and mechanisms of UV-photodegradation of chlorinated organics in the gas phase. <i>Water Research</i> , 2002 , 36, 4203-14	12.5	75
65	Force measurements of bacterial adhesion on metals using a cell probe atomic force microscope. <i>Journal of Colloid and Interface Science</i> , 2007 , 310, 661-9	9.3	74
64	Oxidation of diazinon by aqueous chlorine: kinetics, mechanisms, and product studies. <i>Journal of Agricultural and Food Chemistry</i> , 1999 , 47, 1760-6	5.7	73
63	Inorganic-organic hybrid coatings on stainless steel by layer-by-layer deposition and surface-initiated atom-transfer-radical polymerization for combating biocorrosion. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 640-52	9.5	71
62	Copper corrosion in mildly alkaline water with the disinfectant monochloramine. <i>Corrosion Science</i> , 2002 , 44, 2507-2528	6.8	71
61	Poly(methacrylic acid)-grafted chitosan microspheres via surface-initiated ATRP for enhanced removal of Cd(II) ions from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2013 , 405, 171-82	9.3	68
60	PVDF film tethered with RGD-click-poly(glycidyl methacrylate) brushes by combination of direct surface-initiated ATRP and click chemistry for improved cytocompatibility. <i>RSC Advances</i> , 2014 , 4, 105-117	3.7	66
59	Antibacterial inorganic-organic hybrid coatings on stainless steel via consecutive surface-initiated atom transfer radical polymerization for biocorrosion prevention. <i>Langmuir</i> , 2010 , 26, 6728-36	4	66
58	AFM study of microbial colonization and its deleterious effect on 304 stainless steel by Pseudomonas NCIMB 2021 and Desulfovibrio desulfuricans in simulated seawater. <i>Corrosion Science</i> , 2009 , 51, 1372-1385	6.8	65

57	Scientific uncertainties in atmospheric mercury models II: Sensitivity analysis in the CONUS domain. <i>Atmospheric Environment</i> , 2007 , 41, 6544-6560	5.3	63
56	Grafting of antibacterial polymers on stainless steel via surface-initiated atom transfer radical polymerization for inhibiting biocorrosion by <i>Desulfovibrio desulfuricans</i> . <i>Biotechnology and Bioengineering</i> , 2009 , 103, 268-81	4.9	62
55	Measurements of Trace Metal (Fe, Cu, Mn, Cr) Oxidation States in Fog and Stratus Clouds. <i>Journal of the Air and Waste Management Association</i> , 1998 , 48, 128-143	2.4	59
54	Investigation of the Heterogeneously Catalyzed Hydrolysis of Organophosphorus Pesticides. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 325-334	5.7	57
53	Oxidation of elemental mercury by aqueous chlorine (HOCl/OCl ₂) Implications for tropospheric mercury chemistry. <i>Journal of Geophysical Research</i> , 1998 , 103, 28093-28102		57
52	Effect of replacing a hydroxyl group with a methyl group on arsenic (V) species adsorption on goethite (alpha-FeOOH). <i>Journal of Colloid and Interface Science</i> , 2007 , 306, 16-21	9.3	54
51	Enhancing antibacterial activity of surface-grafted chitosan with immobilized lysozyme on bioinspired stainless steel substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 106, 11-21	6	49
50	Corrosion Behavior of Type 304 Stainless Steel in a Simulated Seawater-Based Medium in the Presence and Absence of Aerobic <i>Pseudomonas NCIMB 2021</i> Bacteria. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3008-3020	3.9	49
49	Aqueous phase reactions of mercury with free radicals and chlorine: Implications for atmospheric mercury chemistry. <i>Chemosphere</i> , 1999 , 38, 1253-1263	8.4	49
48	Two-phase model of mercury chemistry in the atmosphere. <i>Atmospheric Environment</i> , 1998 , 32, 2543-2553	5.3	46
47	Evaluation of an Organic Corrosion Inhibitor on Abiotic Corrosion and Microbiologically Influenced Corrosion of Mild Steel. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7117-7125	3.9	46
46	Oxidation of elemental mercury by aqueous bromine: atmospheric implications. <i>Atmospheric Environment</i> , 2004 , 38, 3675-3688	5.3	46
45	Photoreduction of iron oxyhydroxides and the photooxidation of halogenated acetic acids. <i>Environmental Science & Technology</i> , 1995 , 29, 1215-22	10.3	43
44	Copper corrosion in distribution systems: evaluation of a homogeneous Cu ₂ O film and a natural corrosion scale as corrosion inhibitors. <i>Corrosion Science</i> , 2000 , 42, 1801-1822	6.8	42
43	Biocorrosion Behavior of Titanium Oxide/Butoxide-Coated Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2008 , 155, C196	3.9	40
42	Hydrolysis of Phorate Using Simulated Environmental Conditions: Rates, Mechanisms, and Product Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 1192-1199	5.7	40
41	Light distribution field in catalyst suspensions within an annular photoreactor. <i>Chemical Engineering Science</i> , 2005 , 60, 5255-5268	4.4	39
40	Enhanced adsorption of Cu(II) ions on chitosan microspheres functionalized with polyethylenimine-conjugated poly(glycidyl methacrylate) brushes. <i>RSC Advances</i> , 2016 , 6, 78136-78150	3.7	38

39	Modification of Surface-Oxidized Copper Alloy by Coupling of Viologens for Inhibiting Microbiologically Influenced Corrosion. <i>Journal of the Electrochemical Society</i> , 2007 , 154, C645	3.9	38
38	Poly(1-vinylimidazole) formation on copper surfaces via surface-initiated graft polymerization for corrosion protection. <i>Corrosion Science</i> , 2010 , 52, 1958-1968	6.8	37
37	Photocatalytic Inactivation of Airborne Bacteria in a Continuous-Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7580-7585	3.9	36
36	Surface Modification of Mild Steel with Thermally Cured Antibacterial Poly(vinylbenzyl chloride) Polyaniline Bilayers for Effective Protection against Sulfate Reducing Bacteria Induced Corrosion. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12363-12378	3.9	33
35	Evaluation of Three Different Lamp Emission Models Using Novel Application of Potassium Ferrioxalate Actinometry. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 948-955	3.9	33
34	Experimental and computational studies of nitrogen doped Degussa P25 TiO ₂ : application to visible-light driven photo-oxidation of As(III). <i>Catalysis Science and Technology</i> , 2012 , 2, 784	5.5	32
33	Irreversible adsorption of methyl arsenic, arsenate, and phosphate onto goethite in arsenic and phosphate binary systems. <i>Journal of Colloid and Interface Science</i> , 2008 , 317, 35-43	9.3	32
32	Biocorrosion of AISI 304 Stainless Steel by <i>Desulfovibrio desulfuricans</i> in Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4703-4711	3.9	29
31	Poly(4-vinylaniline)-Polyaniline Bilayer-Modified Stainless Steels for the Mitigation of Biocorrosion by Sulfate-Reducing Bacteria (SRB) in Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14738-14751	3.9	28
30	Minimal Invasiveness and Spectroscopy-Like Footprints for the Characterization of Heterogeneous Nanoscale Wetting in Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20819-20825	3.8	27
29	Polymers for Combating Biocorrosion. <i>Frontiers in Materials</i> , 2018 , 5,	4	26
28	Click functionalization of poly(glycidyl methacrylate) microspheres with triazole-4-carboxylic acid for the effective adsorption of Pb(II) ions. <i>New Journal of Chemistry</i> , 2017 , 41, 6475-6488	3.6	25
27	Chitosan microsphere scaffold tethered with RGD-conjugated poly(methacrylic acid) brushes as effective carriers for the endothelial cells. <i>Macromolecular Bioscience</i> , 2014 , 14, 1299-311	5.5	22
26	Nitrogen-sensitized dual phase titanate/titania for visible-light driven phenol degradation. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 518-527	3.3	21
25	Antimicrobial surfaces of viologen-quaternized poly((2-dimethyl amino)ethyl methacrylate)-Si(100) hybrids from surface-initiated atom transfer radical polymerization. <i>Nanobiotechnology</i> , 2006 , 2, 123-134		21
24	Pathways for the hydrolysis of phorate: product studies by (31)P NMR and GC-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 3013-7	5.7	20
23	PVBC microspheres tethered with poly(3-sulfopropyl methacrylate) brushes for effective removal of Pb(II) ions from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 498, 218-230	5.1	20
22	Surface functionalization of Cu-Ni alloys via grafting of a bactericidal polymer for inhibiting biocorrosion by <i>Desulfovibrio desulfuricans</i> in anaerobic seawater. <i>Biofouling</i> , 2009 , 25, 109-25	3.3	18

21	Hydrolysis of terbufos using simulated environmental conditions: rates, mechanisms, and product analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 5866-73	5.7	16
20	Phorate and Terbufos adsorption onto four tropical soils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 240, 55-61	5.1	15
19	Poly(methacrylic acid)-graft-Ni ₃ Si ₂ O ₅ (OH) ₄ multiwalled nanotubes as a novel nanosorbent for effective removal of copper(II) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 502, 89-101	5.1	14
18	Studies on the magnetic water treatment in new pilot scale drinking water system and in old existing real-life water system. <i>Journal of Water Process Engineering</i> , 2016 , 9, 215-224	6.7	13
17	Magnetic nickel chrysotile nanotubes tethered with pH-sensitive poly(methacrylic acid) brushes for Cu(II) adsorption. <i>Journal of Molecular Liquids</i> , 2019 , 276, 611-623	6	13
16	Nanoscale investigation of photoinduced hydrophilicity variations in anatase and rutile nanopowders. <i>Langmuir</i> , 2013 , 29, 14512-8	4	12
15	Light Distribution Model for an Annular Reactor with a Cylindrical Reflector. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3471-3479	3.9	12
14	PCL microspheres tailored with carboxylated poly(glycidyl methacrylate)-REDV conjugates as conductive microcarriers for endothelial cell expansion. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 8670-8683	7.3	11
13	Mechanism of interactions between Hg(II) and Demeton S: an NMR study. <i>Environmental Science & Technology</i> , 2005 , 39, 2586-91	10.3	11
12	Peracetic acid for conditioning of municipal wastewater sludge: Hygienization, odor control, and fertilizing properties. <i>Waste Management</i> , 2020 , 102, 371-379	8.6	11
11	Performance Evaluation of Light Emission Models in Light Attenuating Media. <i>Ozone: Science and Engineering</i> , 2005 , 27, 459-467	2.4	7
10	Proton-arsenic adsorption ratios and zeta potential measurements: implications for protonation of hydroxyls on the goethite surface. <i>Journal of Colloid and Interface Science</i> , 2007 , 315, 13-20	9.3	5
9	Quasi-quantitative determination of elemental relationships and surface properties in aqueous aluminium-silicon systems. <i>Journal of Water Process Engineering</i> , 2014 , 1, 54-63	6.7	3
8	Inhibition of Microbiologically Influenced Corrosion of Mild Steel and Stainless Steel 316 by an Organic Inhibitor. <i>Advanced Materials Research</i> , 2007 , 20-21, 379-382	0.5	3
7	Novel Antibacterial Coatings for Biofouling and Biocorrosion Inhibition. <i>Interface Science and Technology</i> , 2018 , 257-372	2.3	2
6	Study of the stability of aluminium trimeric clusters in aqueous solutions. <i>Molecular Simulation</i> , 2012 , 38, 934-943	2	1
5	Superhydrophobic Film Coatings for Corrosion Inhibition. <i>Interface Science and Technology</i> , 2018 , 133-184	4.3	1
4	Atmospheric Chemistry of Mercury 2011 , 111-153		

- 3 The Influence of the Marine Aerobic Pseudomonas Strain on the Corrosion of 70/30 Cu-Ni Alloy. *ECS Transactions*, **2006**, 2, 159-192 1
- 2 Oxidation of elemental mercury by aqueous bromine: atmospheric implications. *Atmospheric Environment*, **2004**, 38, 3675-3675 53
- 1 Conducting Polymer Coatings as Effective Barrier to Corrosion. *Interface Science and Technology*, **2018**, 23-61 2.3