Akihiro Yabuki

List of Publications by Year
in descending order

89 papers	1,558 citations	331670 21 h-index	330143 37 g-index
89 all docs	89 docs citations	89 times ranked	1353 citing authors

#	Article	IF	Citations
1	Electrical conductivity of copper nanoparticle thin films annealed at low temperature. Thin Solid Films, 2010, 518, 7033-7037.	1.8	97
2	pH-controlled self-healing polymer coatings with cellulose nanofibers providing an effective release of corrosion inhibitor. Corrosion Science, 2016, 103, 117-123.	6.6	93
3	Oxidation behavior of copper nanoparticles at low temperature. Materials Research Bulletin, 2011, 46, 2323-2327.	5.2	91
4	Low-temperature synthesis of copper conductive film by thermal decomposition of copperâ€“amine complexes. Thin Solid Films, 2011, 519, 6530-6533.	1.8	78
5	Contact forces and mechanisms in a vibratory finisher. Wear, 2002, 252, 635-643.	3.1	77
6	Electrically conductive copper film prepared at low temperature by thermal decomposition of copper amine complexes with various amines. Materials Research Bulletin, 2012, 47, 4107-4111.	5.2	73
7	Self-healing polymer coatings with cellulose nanofibers served as pathways for the release of a corrosion inhibitor. Corrosion Science, 2014, 85, 141-146.	6.6	70
8	Self-healing coatings using superabsorbent polymers for corrosion inhibition in carbon steel. Corrosion Science, 2012, 59, 258-262.	6.6	64
9	Low-Temperature Crystallization of Barium Ferrite Nanoparticles by a Sodium Citrate-Aided Synthetic Process. Journal of Physical Chemistry C, 2007, 111, 10175-10180.	3.1	63
10	Synthesis of copper conductive film by low-temperature thermal decomposition of copperâ€“aminediol complexes under an air atmosphere. Materials Chemistry and Physics, 2014, 148, 299-304.	4.0	58
11	Henna leaves extract as a corrosion inhibitor in acrylic resin coating. Progress in Organic Coatings, 2017, 105, 310-319.	3.9	49
12	Anodic films formed on magnesium in organic, silicate-containing electrolytes. Corrosion Science, 2009, 51, 793-798.	6.6	45
13	Tribological behavior of aluminum alloys in a vibratory finishing process. Wear, 2003, 255, 1369-1379.	3.1	44
14	Self-healing coatings of inorganic particles using a pH-sensitive organic agent. Corrosion Science, 2011, 53, 829-833.	6.6	44
15	Self-healing polymer coating with the microfibers of superabsorbent polymers provides corrosion inhibition in carbon steel. Surface and Coatings Technology, 2018, 341, 71-77.	4.8	39
16	Self-healing capability of porous polymer film with corrosion inhibitor inserted for corrosion protection. Corrosion Science, 2011, 53, 4118-4123.	6.6	38
17	Barrier and selfâ€healing abilities of corrosion protective polymer coatings and metal powders for aluminum alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2007, 58, 497-501.	1.5	36
18	Critical impact velocity in the solid particles impact erosion of metallic materials. Wear, 1999, 233-235, 468-475.	3.1	30

#	Article	IF	Citations
19	Selfâ€healing properties of TiO₂ particleâ€“polymer composite coatings for protection of aluminum alloys against corrosion in seawater. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 907-912.	1.5	25
20	One-step fabrication of short electrospun fibers using an electric spark. Journal of Materials Processing Technology, 2013, 213, 1894-1899.	6.3	24
21	Porous anodic oxide film with self-healing ability for corrosion protection of aluminum. Electrochimica Acta, 2019, 296, 662-668.	5.2	24
22	Multilayer film deposition of Ag and SiO2 nanoparticles using a spin coating process. Thin Solid Films, 2008, 516, 8721-8725.	1.8	21
23	Barrier and selfâ€healing coating with fluoroâ€organic compound for zinc. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 444-449.	1.5	20
24	Theoretical equation of the critical impact velocity in solid particles impact erosion. Wear, 1999, 233-235, 476-483.	3.1	18
25	The anti-slurry erosion properties of polyethylene for sewerage pipe use. Wear, 2000, 240, 52-58.	3.1	17
26	Slurry erosion properties of ceramic coatings. Wear, 1999, 233-235, 608-614.	3.1	16
27	Heating Profile Effect on Morphology, Crystallinity, and Photoluminescent Properties of Y₂O₃:Eu³⁺ Phosphor Nanofibers Prepared Using an Electrospinning Method. Japanese Journal of Applied Physics, 2007, 46, 6705.	1.5	15
28	Particle-induced damage and subsequent healing of materials: Erosion, corrosion and self-healing coatings. Advanced Powder Technology, 2011, 22, 303-310.	4.1	15
29	A simple one-step fabrication of short polymer nanofibers via electrospinning. Journal of Materials Science, 2014, 49, 3519-3528.	3.7	15
30	Mechanism of So-called Erosion-Corrosion and Flow Velocity Difference Corrosion of Pure Copper. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 155-159.	0.2	14
31	Transparent conductive coatings of hot-pressed ITO nanoparticles on a plastic substrate. Chemical Engineering Journal, 2014, 252, 275-280.	12.7	14
32	Critical Ion Concentration for Pitting and General Corrosion of Copper. Corrosion, 2007, 63, 249-257.	1.1	11
33	Importance of dispersibility of TiO2 in preparation of TiO2-dispersed microspheres by Shirasu porous glass (SPG) membrane emulsification. Advanced Powder Technology, 2009, 20, 361-365.	4.1	11
34	Nickel film synthesized by the thermal decomposition of nickel-amine complexes. Thin Solid Films, 2017, 642, 169-173.	1.8	11
35	Low-temperature synthesis of copper conductivity film from a copper formate amine complex with a low boiling point. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114743.	3.5	11
36	The Determination of Solid Particles' Impact Conditions by Numerical Analysis in a Slurry Erosion Testing Apparatus. Zairyo To Kankyo/ Corrosion Engineering, 1997, 46, 293-298.	0.2	10

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37	Self-Healing Coatings for Corrosion Inhibition of Metals. Modern Applied Science, 2015, 9, 214.	0.6	10
38	Effective release of corrosion inhibitor by cellulose nanofibers and zeolite particles in self-healing coatings for corrosion protection. Progress in Organic Coatings, 2021, 154, 106194.	3.9	10
39	Breakaway properties of film formed on copper and copper alloys in erosionâ€“corrosion by mass transfer equation. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 25-31.	1.5	9
40	Multi-plate, thin-film electrodes of manganese oxide synthesized via the thermal decomposition of a manganese-amine complex for use as electrochemical supercapacitors. Electrochimica Acta, 2016, 222, 693-700.	5.2	8
41	High-concentration Transparent TiO2 Nanocomposite Films Prepared from TiO2 Nanoslurry Dispersed by Using Bead Mill. Polymer Journal, 2008, 40, 694-699.	2.7	7
42	Short electrospun composite nanofibers: Effects of nanoparticle concentration and surface charge on fiber length. Current Applied Physics, 2014, 14, 761-767.	2.4	7
43	Stable shape for copper film using low-temperature thermal decomposition of copper microparticles for printable electronics. Chemical Physics Letters, 2020, 761, 138055.	2.6	7
44	Simple Formation of Cancer Drug-Containing Self-Assembled Hydrogels with Temperature and pH-Responsive Release. Langmuir, 2021, 37, 11269-11275.	3.5	7
45	Slurry Erosion Characteristics of Low Pressure Plasma Sprayed Ceramic Coatings. Zairyo To Kankyo/ Corrosion Engineering, 1997, 46, 299-304.	0.2	6
46	Corrosion of Pure Copper Caused by Vortex. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 160-165.	0.2	6
47	Preparation of Nanocomposite Microspheres Containing High Concentration of TiO2 Nanoparticles via Bead Mill Dispersion in Organic Solvent. Chemistry Letters, 2009, 38, 448-449.	1.3	6
48	Mesh-like thin-film electrodes of manganese oxide with high specific capacitance synthesized via thermal decomposition of manganese formate-amine complexed ink. Materials Research Bulletin, 2019, 112, 346-353.	5.2	6
49	Self-reducible copper complex inks with two amines for copper conductive films via calcination below 100 Â°C. Chemical Physics Letters, 2021, 763, 138248.	2.6	6
50	Corrosion of an aluminum alloy chilled in flowing seawater and the effect of cathodic prevention. Materials and Corrosion - Werkstoffe Und Korrosion, 2007, 58, 340-344.	1.5	5
51	Preparation of Transparent Nanocomposite Microspheres via Dispersion of High-Concentration TiO2 and BaTiO3 Nanoparticles in Acrylic Monomer. Journal of the Society of Powder Technology, Japan, 2008, 45, 23-29.	0.1	5
52	Nearâ€wall hydrodynamic effects related to flowâ€induced localized corrosion. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 501-506.	1.5	5
53	Mapping the influence of electrospinning parameters on the morphology transition of short and continuous nanofibers. Fibers and Polymers, 2016, 17, 1238-1244.	2.1	5
54	Controlling the length of short electrospun polymer nanofibers via the addition of micro-spherical silica particles. Journal of Materials Science, 2017, 52, 4016-4024.	3.7	5

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55	Prediction of Service Life of Metallic Materials exposed to Cavitation Attack. Corrosion Engineering, 1990, 39, 550-555.	0.1	4
56	Organic solvent-based thermo-electrochemical cells with an iron(<scp>ii</scp>/<scp>iii</scp>) triflate redox couple for use in harvesting low-grade waste heat at 100â€“200 Â°C. Sustainable Energy and Fuels, 0, , .	4.9	4
57	Critical Impact Velocity in the Solid Particles Impact Erosion of Metallic Materials. Zairyo To Kankyo/ Corrosion Engineering, 1998, 47, 540-547.	0.2	3
58	Corrosion of Carbon Steel in Flowing Pure Water under High Temperature and High Pressure Conditions. Zairyo To Kankyo/ Corrosion Engineering, 2000, 49, 431-436.	0.2	3
59	Is Increasing the pH of AVT Boiler Water Useful in Preventing the Corrosion of Carbon Steel?. Zairyo To Kankyo/ Corrosion Engineering, 2001, 50, 386-389.	0.2	3
60	Effect of Ni and Be Content on the Flow-induced Localized Corrosion Behavior of Copper Alloys. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 539-544.	0.2	3
61	Optimum Condition of Phosphonic Acid Inhibitor Under A Flowing Solution. Zairyo To Kankyo/ Corrosion Engineering, 2005, 54, 74-78.	0.2	3
62	Control of Particle Morphology from Porous to Hollow by Spray-Drying with a Two-Fluid Nozzle and Template Materials. Kagaku Kogaku Ronbunshu, 2007, 33, 468-475.	0.3	3
63	One-Step Fabrication of Short Nanofibers by Electrospinning: Effect of Needle Size on Nanofiber Length. Advanced Materials Research, 0, 896, 33-36.	0.3	3
64	Self-healing corrosion protective coatings in transportation industries. , 2020, , 99-133.		3
65	Effects of Inhibitor on Cavitation Erosion of Commercially Pure Iron. Zairyo To Kankyo/ Corrosion Engineering, 1991, 40, 814-820.	0.2	2
66	Cavitation Erosion-retarding Effect of Tensile Stress. Zairyo To Kankyo/ Corrosion Engineering, 1991, 40, 821-826.	0.2	2
67	A Method for Predicting the Incubation Period of Cavitation Erosion. Zairyo To Kankyo/ Corrosion Engineering, 2000, 49, 483-488.	0.2	2
68	Is the Damage to Pure Copper Piping an Erosion-Corrosion in Nature?. Zairyo To Kankyo/ Corrosion Engineering, 2004, 53, 440-445.	0.2	2
69	Self-healing corrosion protective capability of polymer coatings for aluminum. Keikinzoku/Journal of Japan Institute of Light Metals, 2011, 61, 724-728.	0.4	2
70	One-step direct fabrication of manganese oxide electrodes by low-temperature thermal decomposition of manganese formate-amine ink for supercapacitors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114754.	3.5	2
71	Self-reducible copper complex inks with aminediol and OH-based solvent for the fabrication of a highly conductive copper film by calcination at low temperature under an air atmosphere. New Journal of Chemistry, 2020, 44, 19880-19884.	2.8	2
72	Simple synthesis of copper sulfide film using self-reducible copper formate-amine-sulfur complex paste at less than 200ÂÂ°C. Chemical Physics Letters, 2022, 793, 139460.	2.6	2

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73	Improvement of Cavitation Erosion Resistance Properties of Ceramic Materials. Zairyo To Kankyo/ Corrosion Engineering, 1997, 46, 637-642.	0.2	1
74	Slurry Erosion Properties of Polyethylene. Zairyo To Kankyo/ Corrosion Engineering, 1999, 48, 508-513.	0.2	1
75	A Method for Predicting the Damage Rate of Cavitation Erosion in Actual Machines. Zairyo To Kankyo/ Corrosion Engineering, 2000, 49, 489-493.	0.2	1
76	Corrosion of Low Alloyed Steel in Flowing Pure Water under High Temperature and High Pressure Conditions. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 53-57.	0.2	1
77	Copper Alloys Evaded by Marine Organisms. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 613-617.	0.2	1
78	A Method for Predicting Cavitation Erosion-Corrosion Damage in Simulated Seawater. Zairyo To Kankyo/ Corrosion Engineering, 2004, 53, 38-43.	0.2	1
79	Self-healing of Metal Surface by Coating. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2014, 65, 470-474.	0.2	1
80	Recent Trends in Nanofiber-Based Anticorrosion Coatings. , 2018, , 1-32.		1
81	Recent Trends in Nanofiber-Based Anticorrosion Coatings. , 2019, , 905-936.		1
82	Cavitation Erosion Properties of Ceramics. Zairyo To Kankyo/ Corrosion Engineering, 1997, 46, 588-593.	0.2	0
83	Theoretical Equation of the Critical Impact Velocity in Solid Particles Impact Erosion. Zairyo To Kankyo/ Corrosion Engineering, 1998, 47, 631-637.	0.2	0
84	Self-healing Corrosion Protective Coatings using Super Absorbent Polymer and Corrosion Inhibitor. Zairyo To Kankyo/ Corrosion Engineering, 2011, 60, 438-440.	0.2	0
85	Self-healing Corrosion Protective Coating Using Cellulose Nanofibers. Nippon Gomu Kyokaishi, 2021, 94, 66-71.	0.0	0
86	Ditch Corrosion Generated in Flowing Boiler Feed Water. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 86-91.	0.2	0
87	Damage of Materials by Fine Particles and Self-Healing Coatings. Journal of the Society of Powder Technology, Japan, 2009, 46, 261-268.	0.1	0
88	Corrosion of Al-Zn Alloy Coating by Flame Splay Methods in Flowing Seawater near Freezing Point. Zairyo To Kankyo/ Corrosion Engineering, 2011, 60, 457-461.	0.2	0
89	Self-Healing Corrosion Protective Coatings. Journal of the Japan Society of Colour Material, 2016, 89, 17-21.	0.1	0