Yuji Ohkubo

List of Publications by Year
in descending order

62	628	623188	676716
papers	citations	14 h-index	22 g-index

63	63	63	673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adhesive-free adhesion between heat-assisted plasma-treated fluoropolymers (PTFE, PFA) and plasma-jet-treated polydimethylsiloxane (PDMS) and its application. Scientific Reports, 2018, 8, 18058.	1.6	45
2	Damage-free highly efficient polishing of single-crystal diamond wafer by plasma-assisted polishing. CIRP Annals - Manufacturing Technology, 2018, 67, 353-356.	1.7	43
3	Drastic Improvement in Adhesion Property of Polytetrafluoroethylene (PTFE) via Heat-Assisted Plasma Treatment Using a Heater. Scientific Reports, 2017, 7, 9476.	1.6	35
4	CeO2-supported Ptâ€“Cu alloy nanoparticles synthesized by radiolytic process for highly selective CO oxidation. International Journal of Hydrogen Energy, 2012, 37, 4787-4797.	3.8	34
5	Effect of support for Pt Cu bimetallic catalysts synthesized by electron beam irradiation method on preferential CO oxidation. Applied Catalysis B: Environmental, 2012, 126, 306-314.	10.8	33
6	Î³-Fe2O3-supported Pt-Cu nanoparticles synthesized by radiolytic process for catalytic CO preferential oxidation. Applied Catalysis A: General, 2011, 406, 43-50.	2.2	30
7	Preparation and characterization of super-hydrophobic and oleophobic surface. Journal of Materials Science, 2010, 45, 4963-4969.	1.7	28
8	Adhesive-free adhesion between polytetrafluoroethylene (PTFE) and isobutyleneâ€“isoprene rubber (IIR) via heat-assisted plasma treatment. RSC Advances, 2017, 7, 6432-6438.	1.7	28
9	Comparison of structure and catalytic performance of Ptâ€“Co and Ptâ€“Cu bimetallic catalysts supported on Al2O3 and CeO2 synthesized by electron beam irradiation method for preferential CO oxidation. International Journal of Hydrogen Energy, 2013, 38, 4456-4465.	3.8	23
10	Comparison between adhesion properties of adhesive bonding and adhesive-free adhesion for heat-assisted plasma-treated polytetrafluoroethylene (PTFE). Journal of Adhesion, 2020, 96, 776-796.	1.8	21
11	Carbon-supported AuPd bimetallic nanoparticles synthesized by high-energy electron beam irradiation for direct formic acid fuel cell. Journal of Materials Science, 2013, 48, 2142-2150.	1.7	19
12	Pt/TiO2 composite nanoparticles synthesized by electron beam irradiation for preferential CO oxidation. Materials Research Bulletin, 2013, 48, 1347-1351.	2.7	15
13	CuO role in Î³-Fe2O3-supported Ptâ€“Cu bimetallic nanoparticles synthesized by radiation-induced reduction as catalysts for preferential CO oxidation. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	14
14	Effect of CeO2 support properties on structure of Ptâ€“Cu nanoparticles synthesized by electron beam irradiation method for preferential CO oxidation. Chemical Engineering Journal, 2013, 223, 347-355.	6.6	14
15	X-ray-induced reduction of Au ions in an aqueous solution in the presence of support materials andinÂsitutime-resolved XANES measurements. Journal of Synchrotron Radiation, 2014, 21, 1148-1152.	1.0	14
16	Effect of rubber compounding agent on adhesion strength between rubber and heat-assisted plasma-treated polytetrafluoroethylene (PTFE). Journal of Adhesion, 2019, 95, 242-257.	1.8	14
17	Preparation of carbon-supported PtCo nanoparticle catalysts for the oxygen reduction reaction in polymer electrolyte fuel cells by an electron-beam irradiation reduction method. Journal of Materials Science, 2013, 48, 5047-5054.	1.7	13
18	Enhanced electrochemical stability of PtRuAu/C catalyst synthesized by radiolytic process. Journal of Materials Research, 2012, 27, 1037-1045.	1.2	12

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19	Structure and Catalytic Performance of Ptâ€“Cu Bimetallic Catalysts Synthesized by a Radiation-Induced Reduction Method in the Aqueous Phase: Influence of Support Material and Sulfate Ion in the Precursor. Journal of Physical Chemistry C, 2013, 117, 5742-5751.	1.5	12
20	Optimization of Gas Composition Used in Plasma Chemical Vaporization Machining for Figuring of Reaction-Sintered Silicon Carbide with Low Surface Roughness. Scientific Reports, 2018, 8, 2376.	1.6	11
21	Radiolytic synthesis of carbon-supported PtRu nanoparticles using high-energy electron beam: effect of pH control on the PtRu mixing state and the methanol oxidation activity. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	10
22	Effect of decrease in the size of Pt nanoparticles using sodium phosphinate on electrochemically active surface area. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	10
23	Improvement in Adhesion between Polytetrafluoroethyleneï¼ˆPTFEï¼‰and Electroless-Plated Copper Film Using Heat-Assisted Plasma Treatment. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 551-556.	0.1	10
24	Cross-sectional observation of a weak boundary layer in polytetrafluoroethylene (PTFE) using scanning electron microscope. Polymer Journal, 2022, 54, 79-81.	1.3	10
25	Effects of He and Ar Heat-Assisted Plasma Treatments on the Adhesion Properties of Polytetrafluoroethylene (PTFE). Polymers, 2021, 13, 4266.	2.0	10
26	Application of a chemically adsorbed fluorocarbon film to improve demolding. Precision Engineering, 2009, 33, 229-234.	1.8	9
27	Open-air-type ArÂ+ÂH₂O plasma treatment of polytetrafluoroethylene for improving Ag/PTFE adhesion strength: application to highly adhesive Ag direct wiring patterns. Japanese Journal of Applied Physics, 2020, 59, 077004.	0.8	9
28	Development of a Water- and Oil-repellent Treatment for Silk and Cotton Fabrics with Fluoroalkyl-trimethoxysilane. Journal of Textile Engineering, 2009, 55, 13-21.	0.5	8
29	Mass production of highly loaded and highly dispersed PtRu/C catalysts for methanol oxidation using an electron-beam irradiation reduction method. Journal of Experimental Nanoscience, 2016, 11, 123-137.	1.3	8
30	Influence of air contamination during heat-assisted plasma treatment on adhesion properties of polytetrafluoroethylene (PTFE). RSC Advances, 2019, 9, 22900-22906.	1.7	8
31	Adhesive-Free Adhesion between Plasma-Treated Glass-Cloth-Containing Polytetrafluoroethylene (GCâ€“PTFE) and Stainless Steel: Comparison between GCâ€“PTFE and Pure PTFE. Polymers, 2022, 14, 394.	2.0	8
32	Radiolytic Synthesis of Pt-Particle/ABS Catalysts for H2O2 Decomposition in Contact Lens Cleaning. Nanomaterials, 2017, 7, 235.	1.9	7
33	Radiation induced synthesis of Auâ€“Pd nanoparticles of random alloy structure supported on carbon particles using the high energy electron beam. Materials Letters, 2011, 65, 2165-2167.	1.3	6
34	Active Metalâ€“Oxide Interfaces in Supported Ptâ€“Cu/CeO2 and Mechanically Mixed Ptâ€“Cu+CeO2 Catalysts Synthesized by an Electron Beam Irradiation Method for Selective CO Oxidation. Catalysis Letters, 2013, 143, 1182-1187.	1.4	6
35	Radiochemical synthesis of a carbon-supported Ptâ€“SnO2 bicomponent nanostructure exhibiting enhanced catalysis of ethanol oxidation. Radiation Physics and Chemistry, 2015, 108, 1-6.	1.4	6
36	Study on Super-Hydrophobic and Oleophobic Surfaces Prepared by Chemical Adsorption Technique. Japanese Journal of Applied Physics, 2009, 48, 040205.	0.8	5

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37	Radiation induced synthesis of PtCu/C nanoparticles using high-energy electron beam. Materials Letters, 2012, 82, 33-35.	1.3	5
38	Strong Biomimetic Immobilization of Pt-Particle Catalyst on ABS Substrate Using Polydopamine and Its Application for Contact-Lens Cleaning with H2O2. Nanomaterials, 2020, 10, 114.	1.9	5
39	Physical performance of the metal surface covered with the highly durable and chemically adsorbed fluorocarbon film. Precision Engineering, 2010, 34, 440-445.	1.8	4
40	Application of Chemically Adsorbed Fluorocarbon Film with Highly Durability as a Mold Release Agent. Seikei-Kakou, 2010, 22, 104-114.	0.0	3
41	Structure of bicomponent metalâ€“oxide composites synthesized by electron beam irradiation method. Journal of Alloys and Compounds, 2013, 577, 125-130.	2.8	2
42	Structure control of Pt-SnO₂catalyst for DEFC synthesized by electron beam irradiation method. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	2
43	Surface Modification of Fluoropolymer Using Open-Air Plasma Treatment at Atmospheric Pressure with Ar, Arï¼‹O₂, and Arï¼‹H₂ for Application in HighAdhesion Metal Wiring Patterns. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2018, 69, 155-162.	0.1	2
44	Improved Catalytic Durability of Pt-Particle/ABS for H2O2 Decomposition in Contact Lens Cleaning. Nanomaterials, 2019, 9, 342.	1.9	2
45	Experimental Study on the Application as the Mold Release Agent of a Chemically Adsorbed Fluorocarbon Film. Seikei-Kakou, 2009, 21, 38-43.	0.0	2
46	Innovative Technique for Bonding Fluoropolymers and Different Materials Using Atmospheric Pressure Plasma. Journal of Japan Institute of Electronics Packaging, 2016, 19, 127-131.	0.0	2
47	Development of a Simultaneous Process of Surface Modification and Pd Nanoparticle Immobilization of a Polymer Substrate Using Radiation. Nanomaterials, 2022, 12, 1463.	1.9	2
48	Immobilization of Polypyrrole Thin Film and Copper Ions through a Chemically Adsorbed Monolayer Containing Pyrrolyl Group. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2009, 60, 805-810.	0.1	1
49	Magnetic particles stabilized by chemically adsorbed monolayers for use in functional fluids. Thin Solid Films, 2009, 517, 4360-4364.	0.8	1
50	Technique for Immobilizing Copper Ions on a Substrate through a Nanoscale Thin Film Containing Pyrrole Groups. Journal of Chemical Engineering of Japan, 2010, 43, 406-412.	0.3	1
51	Improvement of methanol oxidation catalytic activities of radiochemically synthesized PtRu/C nanoparticles by post annealing process. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	1
52	Effect of pH on Nanoparticle Structure in Radiochemical Synthesis of PtCu Alloy Supported on Î³-Fe2O3 and Carbon. MRS Advances, 2016, 1, 427-432.	0.5	1
53	Influence of pH on performance of sodium phosphinate for decreasing the particle size. Journal of Experimental Nanoscience, 2016, 11, 707-713.	1.3	1
54	Effect of counterpart metals in carbon-supported Pt-based catalysts prepared using radiation chemical method. Radiation Physics and Chemistry, 2017, 133, 67-71.	1.4	1

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55	Effect of metal ion location in reaction medium on formation process and structure of PtCuâ€“CuO nanoparticles supported on carbon and Î³-Fe2O3. Journal of Nuclear Science and Technology, 2017, 54, 472-480.	0.7	1
56	Development of Heat-assisted Plasma Treatment for DrasticImprovement in Adhesion Property of Fluoropolymers. Journal of the Adhesion Society of Japan, 2018, 54, 4-16.	0.0	1
57	Application of a Chemically Adsorbed Monolayer and Polypyrrole Thin Film for Increasing the Adhesion Force between the Resin Substrate and the Plated Copper Layer. Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	0
58	A Binder-Free Ag Paste Using a Chemically Adsorbed Monolayer. Japanese Journal of Applied Physics, 2009, 48, 066506.	0.8	0
59	Improvement in Adhesion of Copper Plating on Resin Substrate Using Chemically Adsorbed Monolayer Containing Pyrrolyl Group and Polypyrrole Film. Journal of Japan Institute of Electronics Packaging, 2011, 14, 121-127.	0.0	0
60	Radiolytic preparation of thin Au film directly on resin substrate using high-energy electron beam. Thin Solid Films, 2016, 604, 63-68.	0.8	0
61	Innovative Surface Modification of PTFE Using Heat-Assisted Plasma Treatment and Improvement in Adhesion Between PTFE and Different Materials. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2019, 70, 96-102.	0.1	0
62	A Binder-free Electrically Conductive Ag Adhesive Using a Chemically Adsorbed Monolayer. , 2008, , .		0