

Jin Kawakita

List of Publications by Year in descending order

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67
papers

1,180
citations

471509

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395702

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67
all docs

67
docs citations

67
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative and qualitative studies for real monitoring of interfacial molecular water. Journal of Colloid and Interface Science, 2022, 613, 311-319.	9.4	10
2	Recent Sensing Technologies of Imperceptible Water in Atmosphere. Chemosensors, 2022, 10, 112.	3.6	5
3	Relation between Water Status on Micro/Nano Gap between Galvanic Arrays and Flowing Current Around 100% in Relative Humidity. Journal of the Electrochemical Society, 2021, 168, 047512.	2.9	6
4	Superhydrophilic polymer modified galvanic array moisture sensor chip with stable/improved lifetime towards enhanced dew condensation detection. Sensors and Actuators A: Physical, 2021, 331, 113036.	4.1	6
5	Quantitative Correlation of Droplets on Galvanic-Coupled Arrays with Response Current by Image Processing. ACS Omega, 2021, 6, 30818-30825.	3.5	6
6	Quick and Sensitive Detection of Water Using Galvanic-Coupled Arrays with a Submicron Gap for the Advanced Prediction of Dew Condensation. Sensors, 2020, 20, 3314.	3.8	13
7	Micro/nano galvanic-coupled arrays for early and initial detection and prediction of dew condensation. Sensors and Actuators A: Physical, 2020, 303, 111838.	4.1	22
8	Enhancement of Electrochemical Reaction Rate on Galvanic Arrays in Contact with Condensed Water Molecules. Journal of the Electrochemical Society, 2020, 167, 167510.	2.9	4
9	Enhancement of Sensitivity Through Electrochemical Reaction Between Water and Micro/Nano Galvanic Arrays Towards Dew Condensation Prediction. ECS Meeting Abstracts, 2020, MA2020-02, 3298-3298.	0.0	0
10	Photoelectroscopic Study of Mn Barrier Layer on SiO ₂ for Si Wafer Bonding Process. , 2019, , .		0
11	Enhancement of Sensitivity and Accuracy of Micro/Nano Water Droplets Detection Using Galvanic-Coupled Arrays. Sensors, 2019, 19, 4500.	3.8	12
12	Detection of Micro/Nano Droplet by Galvanic-Coupled Arrays. ECS Transactions, 2017, 75, 51-59.	0.5	16
13	Polymer/Metal composite for flexible interconnect : Conductive, flexible, adhesive and productive material. , 2017, , .		2
14	Interfacial charge transfer behavior of conducting polymers as contact electrode for semiconductor devices. Japanese Journal of Applied Physics, 2016, 55, 04EC10.	1.5	0
15	Materials Research Beginning from Electrochemistry. Materia Japan, 2016, 55, 412-415.	0.1	0
16	Pursuit of Propagation of Stress Corrosion Cracking by Intermittent X-ray Computed Tomography. Zairyo To Kankyo/ Corrosion Engineering, 2016, 65, 202-204.	0.2	0
17	Electrochemically Catalytic Activity of Boron-doped Diamond for I ⁻ /I ⁰ Redox Couple. Electrochemistry, 2015, 83, 342-344.	1.4	4
18	Conductive polymer/metal composites for interconnect of flexible devices. Japanese Journal of Applied Physics, 2015, 54, 06FJ12.	1.5	11

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19	Reaction factors for photo-electrochemical deposition of metal silver on polypyrrole as conducting polymer. <i>Electrochimica Acta</i> , 2015, 183, 15-19.	5.2	6
20	Suppression of defect level emissions in low temperature fabricated one-dimensional Mn doped ZnO nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2989-2994.	2.2	5
21	Strong Adhesion of Silver/Polypyrrole Composite onto Plastic Substrates toward Flexible Electronics. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GG12.	1.5	9
22	Fermi level of a conducting organic polymer formed on an n-type semiconductor by the photo-electrochemical method. <i>Electrochimica Acta</i> , 2012, 82, 378-383.	5.2	3
23	Fast Formation of Conductive Material by Simultaneous Chemical Process for Infilling Through-Silicon Via. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FG11.	1.5	5
24	Initial Formation Behaviour of Polypyrrole on Single Crystal TiO ₂ Through Photo-Electrochemical Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2937-2943.	0.9	7
25	Fabrication and Interfacial Electronic Structure Studies on Polypyrrole/TiO ₂ Nano Hybrid Systems for Photovoltaic Aspects. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3867-3874.	0.9	4
26	Theoretical Calculation of Pressure Characteristics in Two-Stage High-Velocity Oxy-Fuel Thermal Spray Gun Employing Supersonic Flow (Validation by Cold Flow and Actual Spray Gun Tests). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 86-95.	0.2	0
27	Effects of Particle Strength of Feedstock Powders on Properties of Warm-Sprayed WC-Co Coatings. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 1098-1109.	3.1	23
28	Development of Corrosion Protection Coatings Based on Impact/Deposition Phenomenon of Supersonic Particles. <i>Zairyo To Kankyo/ Corrosion Engineering</i> , 2011, 60, 277-280.	0.2	1
29	Growth Mechanism of Polypyrrole through Electrochemical Polymerization. <i>Electrochemistry</i> , 2010, 78, 140-142.	1.4	6
30	Effect of Powder Characteristics on Properties of Warm-Sprayed WC-Co Coatings. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 81-88.	3.1	57
31	Effects of Some Light Alloying Elements on the Oxidation Behavior of Fe and Ni-Cr Based Alloys During Air Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 128-136.	3.1	12
32	Material properties controlling photocurrent on TiO ₂ aggregates with plane orientation for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2621-2628.	1.9	6
33	Photoelectrochemical evaluation of anatase TiO ₂ polycrystalline aggregation layers with different crystalline orientations. <i>Journal of Materials Research</i> , 2010, 25, 63-68.	2.6	4
34	Orientation Dependence of Semiconductor Properties in Anatase TiO ₂ Polycrystalline Aggregates. <i>Journal of the Electrochemical Society</i> , 2010, 157, H65.	2.9	15
35	Magnetic and optical property studies on controlled low-temperature fabricated one-dimensional Cr doped ZnO nanorods. <i>CrystEngComm</i> , 2010, 12, 1887.	2.6	36
36	Photoanode characteristics of dye-sensitized solar cell containing TiO ₂ layers with different crystalline orientations. <i>Journal of Materials Research</i> , 2009, 24, 1417-1421.	2.6	8

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37	Formation of Crystalline-Oriented Titania Thin Films on ITO Glass Electrodes by EPD in a Strong Magnetic Field. <i>Key Engineering Materials</i> , 2009, 412, 143-148.	0.4	2
38	Effects of Temperature of In-flight Particles on Bonding and Microstructure in Warm-Sprayed Titanium Deposits. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 392-400.	3.1	30
39	Preparation of Crystalline-Oriented Titania Photoelectrodes on ITO Glasses from a 2-Propanol-Pentanedione Solvent by Electrophoretic Deposition in a Strong Magnetic Field. <i>Journal of the American Ceramic Society</i> , 2009, 92, 984-989.	3.8	25
40	Development of WC-Co Coatings Deposited by Warm Spray Process. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 750-756.	3.1	45
41	Fabrication of nano-sized oxide composite coatings and photo-electric conversion/electron storage characteristics. <i>Surface and Coatings Technology</i> , 2008, 202, 4028-4035.	4.8	14
42	Warm Spraying: An improved spray process to deposit novel coatings. <i>Surface and Coatings Technology</i> , 2008, 202, 4369-4373.	4.8	60
43	Grain refinement in a single titanium powder particle impacted at high velocity. <i>Scripta Materialia</i> , 2008, 59, 768-771.	5.2	136
44	Warm spraying—a novel coating process based on high-velocity impact of solid particles. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 033002.	6.1	131
45	Coating Fabrication of Nano-Sized Oxides/Metal Composite by Warm Spray and its Photo-Cathodic Protection Behaviour. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2008, 2, 156-165.	0.5	2
46	Fabrication and Mechanical Properties of Composite Structure by Warm Spraying of Zr-Base Metallic Glass. <i>Materials Transactions</i> , 2008, 49, 317-323.	1.2	14
47	326 Evaluation of nano-sized oxides and metal composite coatings fabricated by Warm Spray. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2007, 2007, 202-203.	0.0	0
48	In-Situ Densification of Ti Coatings by the Warm Spray (Two-Stage HVOF) Process. <i>Materials Transactions</i> , 2006, 47, 1631-1637.	1.2	21
49	Effects of deformability of HVOF sprayed copper particles on the density of resultant coatings. <i>Surface and Coatings Technology</i> , 2006, 200, 4414-4423.	4.8	11
50	Dense titanium coatings by modified HVOF spraying. <i>Surface and Coatings Technology</i> , 2006, 201, 1250-1255.	4.8	98
51	2352 Theoretical Analysis of Combustion-Gas Conditions Mixed with Nitrogen for Two-Stage HVOF Thermal Spray Gun. <i>The Proceedings of the JSME Annual Meeting</i> , 2006, 2006.2, 117-118.	0.0	0
52	Effect of Spray Condition and Heat Treatment on the Structure and Adhesive Wear Properties of WC Cermet Coatings. <i>Materials Transactions</i> , 2005, 46, 1671-1676.	1.2	15
53	Improvement of Corrosion Resistance of High-Velocity Oxyfuel-Sprayed Stainless Steel Coatings by Addition of Molybdenum. <i>Journal of Thermal Spray Technology</i> , 2005, 14, 224-230.	3.1	22
54	Aerodynamic study on supersonic flows in high-velocity oxy-fuel thermal spray process. <i>Journal of Thermal Science</i> , 2005, 14, 126-129.	1.9	6

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55	Development of Corrosion and Wear Resistant Coatings by an Improved HVOF Spraying Process. Materials Science Forum, 2005, 475-479, 237-240.	0.3	0
56	Oscillational corrosion potential of HastelloyC coatings fabricated by GS-HVOF spraying. Corrosion Science, 2005, 47, 2053-2062.	6.6	11
57	Oxidation Restriction of In-flight Particles upon GS-HVOF Spraying by Nitrogen Addition to Combustion Gas. Materials Transactions, 2004, 45, 346-349.	1.2	3
58	Numerical Simulation of Gas and Particle Flow in High-Velocity Oxy-Fuel Flame Spray. The Proceedings of the Fluids Engineering Conference, 2004, 2004, 146.	0.0	0
59	Fundamental Study on Supersonic Flow in High-Velocity Oxy-Fuel Thermal Spraying Gun. The Proceedings of the JSME Annual Meeting, 2004, 2004.2, 17-18.	0.0	0
60	Development of dense corrosion resistant coatings by an improved HVOF spraying process. Science and Technology of Advanced Materials, 2003, 4, 281-289.	6.1	27
61	Evaluation of through-porosity of HVOF sprayed coating. Surface and Coatings Technology, 2003, 166, 17-23.	4.8	46
62	Corrosion resistance of HVOF sprayed HastelloyC nickel base alloy in seawater. Corrosion Science, 2003, 45, 2819-2835.	6.6	41
63	Corrosion Resistance of HastelloyC Coatings Formed by an Improved HVOF Thermal Spraying Process. Materials Transactions, 2003, 44, 253-258.	1.2	16
64	Importance of the Adhesion of HVOF Sprayed Coatings for Aqueous Corrosion Resistance. Materials Transactions, 2003, 44, 381-388.	1.2	15
65	Analytical Study of Supersonic Flow in Barrel of High-Velocity Oxy-Fuel Thermal Spray. The Proceedings of the Fluids Engineering Conference, 2003, 2003, 51.	0.0	0
66	Corrosion behaviour of HVOF sprayed SUS316L stainless steel in seawater. Corrosion Science, 2002, 44, 2561-2581.	6.6	65
67	Novel Coatings of Cemented Carbides by an Improved HVOF Spraying Process. , 0, , 159-166.		0