

Jin Kawakita

List of Publications by Year in descending order

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67
papers

1,180
citations

471509

17
h-index

395702

33
g-index

67
all docs

67
docs citations

67
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain refinement in a single titanium powder particle impacted at high velocity. Scripta Materialia, 2008, 59, 768-771.	5.2	136
2	Warm spraying—a novel coating process based on high-velocity impact of solid particles. Science and Technology of Advanced Materials, 2008, 9, 033002.	6.1	131
3	Dense titanium coatings by modified HVOF spraying. Surface and Coatings Technology, 2006, 201, 1250-1255.	4.8	98
4	Corrosion behaviour of HVOF sprayed SUS316L stainless steel in seawater. Corrosion Science, 2002, 44, 2561-2581.	6.6	65
5	Warm Spraying: An improved spray process to deposit novel coatings. Surface and Coatings Technology, 2008, 202, 4369-4373.	4.8	60
6	Effect of Powder Characteristics on Properties of Warm-Sprayed WC-Co Coatings. Journal of Thermal Spray Technology, 2010, 19, 81-88.	3.1	57
7	Evaluation of through-porosity of HVOF sprayed coating. Surface and Coatings Technology, 2003, 166, 17-23.	4.8	46
8	Development of WC-Co Coatings Deposited by Warm Spray Process. Journal of Thermal Spray Technology, 2008, 17, 750-756.	3.1	45
9	Corrosion resistance of HVOF sprayed HastelloyC nickel base alloy in seawater. Corrosion Science, 2003, 45, 2819-2835.	6.6	41
10	Magnetic and optical property studies on controlled low-temperature fabricated one-dimensional Cr doped ZnO nanorods. CrystEngComm, 2010, 12, 1887.	2.6	36
11	Effects of Temperature of In-flight Particles on Bonding and Microstructure in Warm-Sprayed Titanium Deposits. Journal of Thermal Spray Technology, 2009, 18, 392-400.	3.1	30
12	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
13	Preparation of Crystalline-Oriented Titania Photoelectrodes on ITO Glasses from a 2-Propanol-2,4-Pentanedione Solvent by Electrophoretic Deposition in a Strong Magnetic Field. Journal of the American Ceramic Society, 2009, 92, 984-989.	3.8	25
14	Effects of Particle Strength of Feedstock Powders on Properties of Warm-Sprayed WC-Co Coatings. Journal of Thermal Spray Technology, 2011, 20, 1098-1109.	3.1	23
15	Improvement of Corrosion Resistance of High-Velocity Oxyfuel-Sprayed Stainless Steel Coatings by Addition of Molybdenum. Journal of Thermal Spray Technology, 2005, 14, 224-230.	3.1	22
16	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
17	In-Situ Densification of Ti Coatings by the Warm Spray (Two-Stage HVOF) Process. Materials Transactions, 2006, 47, 1631-1637.	1.2	21
18	Corrosion Resistance of HastelloyC Coatings Formed by an Improved HVOF Thermal Spraying Process. Materials Transactions, 2003, 44, 253-258.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Detection of Micro/Nano Droplet by Galvanic-Coupled Arrays. ECS Transactions, 2017, 75, 51-59.	0.5	16
20	Importance of the Adhesion of HVOF Sprayed Coatings for Aqueous Corrosion Resistance. Materials Transactions, 2003, 44, 381-388.	1.2	15
21	Effect of Spray Condition and Heat Treatment on the Structure and Adhesive Wear Properties of WC Cermet Coatings. Materials Transactions, 2005, 46, 1671-1676.	1.2	15
22	Orientation Dependence of Semiconductor Properties in Anatase TiO ₂ Polycrystalline Aggregates. Journal of the Electrochemical Society, 2010, 157, H65.	2.9	15
23	Fabrication of nano-sized oxide composite coatings and photo-electric conversion/electron storage characteristics. Surface and Coatings Technology, 2008, 202, 4028-4035.	4.8	14
24	Fabrication and Mechanical Properties of Composite Structure by Warm Spraying of Zr-Base Metallic Glass. Materials Transactions, 2008, 49, 317-323.	1.2	14
25	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
26	Effects of Some Light Alloying Elements on the Oxidation Behavior of Fe and Ni-Cr Based Alloys During Air Plasma Spraying. Journal of Thermal Spray Technology, 2010, 19, 128-136.	3.1	12
27	Enhancement of Sensitivity and Accuracy of Micro/Nano Water Droplets Detection Using Galvanic-Coupled Arrays. Sensors, 2019, 19, 4500.	3.8	12
28	Oscillational corrosion potential of HastelloyC coatings fabricated by GS-HVOF spraying. Corrosion Science, 2005, 47, 2053-2062.	6.6	11
29	Effects of deformability of HVOF sprayed copper particles on the density of resultant coatings. Surface and Coatings Technology, 2006, 200, 4414-4423.	4.8	11
30	Conductive polymer/metal composites for interconnect of flexible devices. Japanese Journal of Applied Physics, 2015, 54, 06FJ12.	1.5	11
31	Quantitative and qualitative studies for real monitoring of interfacial molecular water. Journal of Colloid and Interface Science, 2022, 613, 311-319.	9.4	10
32	Strong Adhesion of Silver/Polypyrrole Composite onto Plastic Substrates toward Flexible Electronics. Japanese Journal of Applied Physics, 2013, 52, 06GG12.	1.5	9
33	Photoanode characteristics of dye-sensitized solar cell containing TiO ₂ layers with different crystalline orientations. Journal of Materials Research, 2009, 24, 1417-1421.	2.6	8
34	Initial Formation Behaviour of Polypyrrole on Single Crystal TiO ₂ Through Photo-Electrochemical Reaction. Journal of Nanoscience and Nanotechnology, 2011, 11, 2937-2943.	0.9	7
35	Aerodynamic study on supersonic flows in high-velocity oxy-fuel thermal spray process. Journal of Thermal Science, 2005, 14, 126-129.	1.9	6
36	Growth Mechanism of Polypyrrole through Electrochemical Polymerization. Electrochemistry, 2010, 78, 140-142.	1.4	6

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37	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
38	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
39	Relation between Water Status on Micro/Nano Gap between Galvanic Arrays and Flowing Current Around 100% in Relative Humidity. <i>Journal of the Electrochemical Society</i> , 2021, 168, 047512.	2.9	6
40	Superhydrophilic polymer modified galvanic array moisture sensor chip with stable/improved lifetime towards enhanced dew condensation detection. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113036.	4.1	6
41	Quantitative Correlation of Droplets on Galvanic-Coupled Arrays with Response Current by Image Processing. <i>ACS Omega</i> , 2021, 6, 30818-30825.	3.5	6
42	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
43	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
44	Recent Sensing Technologies of Imperceptible Water in Atmosphere. <i>Chemosensors</i> , 2022, 10, 112.	3.6	5
45	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
46	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
47	Electrochemically Catalytic Activity of Boron-doped Diamond for I ⁻ /I ⁰ Redox Couple. <i>Electrochemistry</i> , 2015, 83, 342-344.	1.4	4
48	Enhancement of Electrochemical Reaction Rate on Galvanic Arrays in Contact with Condensed Water Molecules. <i>Journal of the Electrochemical Society</i> , 2020, 167, 167510.	2.9	4
49	Oxidation Restriction of In-flight Particles upon GS-HVOF Spraying by Nitrogen Addition to Combustion Gas. <i>Materials Transactions</i> , 2004, 45, 346-349.	1.2	3
50	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
51	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
52	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
53	Polymer/Metal composite for flexible interconnect : Conductive, flexible, adhesive and productive material. , 2017, , .		2
54	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

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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	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
57	Interfacial charge transfer behavior of conducting polymers as contact electrode for semiconductor devices. Japanese Journal of Applied Physics, 2016, 55, 04EC10.	1.5	0
58	Materials Research Beginning from Electrochemistry. Materia Japan, 2016, 55, 412-415.	0.1	0
59	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
60	Photoelectroscopic Study of Mn Barrier Layer on SiO2for Si Wafer Bonding Process. , 2019, , .		0
61	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
62	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
63	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
64	2352 Theoretical Analysis of Combustion-Gas Conditions Mixed with Nitrogen for Two-Stage HVOF Thermal Spray Gun. The Proceedings of the JSME Annual Meeting, 2006, 2006.2, 117-118.	0.0	0
65	326 Evaluation of nano-sized oxides and metal composite coatings fabricated by Warm Spray. The Proceedings of the Materials and Mechanics Conference, 2007, 2007, 202-203.	0.0	0
66	Novel Coatings of Cemented Carbides by an Improved HVOF Spraying Process. , 0, , 159-166.		0
67	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