

Scott A Furman

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,763
citations

257101

24
h-index

301761

39
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41
all docs

41
docs citations

41
times ranked

1712
citing authors

#	ARTICLE	IF	CITATIONS
1	The initiation mechanism of corrosion of zinc by sodium chloride particle deposition. <i>Corrosion Science</i> , 2002, 44, 555-572.	3.0	145
2	Fast, energy-efficient synthesis of luminescent carbon quantum dots. <i>Green Chemistry</i> , 2014, 16, 2566-2570.	4.6	116
3	Polyethylene-co-methacrylic acid healing agents for mendable epoxy resins. <i>Acta Materialia</i> , 2009, 57, 4312-4320.	3.8	115
4	FTIR study of bonding between a thermoplastic healing agent and a mendable epoxy resin. <i>Vibrational Spectroscopy</i> , 2010, 52, 10-15.	1.2	106
5	A rapid screening multi-electrode method for the evaluation of corrosion inhibitors. <i>Electrochimica Acta</i> , 2009, 54, 3402-3411.	2.6	97
6	Confirmation of the healing mechanism in a mendable EMAA epoxy resin. <i>European Polymer Journal</i> , 2012, 48, 524-531.	2.6	74
7	Poly[ethylene (methacrylic acid)] Healing Agents for Mendable Carbon Fiber Laminates. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 420-424.	1.7	72
8	Multispectral and hyperspectral image analysis of elemental and micro-Raman maps of cross-sections from a 16th century painting. <i>Analytica Chimica Acta</i> , 2008, 610, 15-24.	2.6	68
9	Plasmonic Ag nanoparticles via environment-benign atmospheric microplasma electrochemistry. <i>Nanotechnology</i> , 2013, 24, 095604.	1.3	62
10	Chromate leaching from inhibited primers. <i>Progress in Organic Coatings</i> , 2006, 56, 23-32.	1.9	59
11	Applying SEM-Based X-ray Microtomography to Observe Self-Healing in Solvent Encapsulated Thermoplastic Materials. <i>Advanced Engineering Materials</i> , 2010, 12, 228-234.	1.6	59
12	Chromate leaching from inhibited primers. <i>Progress in Organic Coatings</i> , 2006, 56, 33-38.	1.9	50
13	Pitting of zinc: Observations on atmospheric corrosion in tropical countries. <i>Corrosion Science</i> , 2010, 52, 848-858.	3.0	50
14	Microplasma-chemical synthesis and tunable real-time plasmonic responses of alloyed Au _x Ag _{1-x} nanoparticles. <i>Chemical Communications</i> , 2014, 50, 3144-3147.	2.2	50
15	Holistic model for atmospheric corrosion: Part 2 - Experimental measurement of deposition of marine salts in a number of long range studies. <i>Corrosion Engineering Science and Technology</i> , 2003, 38, 259-266.	0.7	49
16	Corrosion in artificial defects. II. Chromate reactions. <i>Corrosion Science</i> , 2006, 48, 1827-1847.	3.0	46
17	Pitting Corrosion of Zn and Zn-Al Coated Steels in pH 2 to 12 NaCl Solutions. <i>Journal of the Electrochemical Society</i> , 2007, 154, C7.	1.3	45
18	Controlled synthesis of a large fraction of metallic single-walled carbon nanotube and semiconducting carbon nanowire networks. <i>Nanoscale</i> , 2011, 3, 3214.	2.8	45

#	ARTICLE	IF	CITATIONS
19	High-throughput channel arrays for inhibitor testing: Proof of concept for AA2024-T3. Corrosion Science, 2009, 51, 2279-2290.	3.0	44
20	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces: I. Results from 1- and 2.5-Day Exposures. Journal of the Electrochemical Society, 2008, 155, C244.	1.3	42
21	Corrosion in artificial defects. I: Development of corrosion. Corrosion Science, 2006, 48, 1812-1826.	3.0	38
22	Self-organized Au nanoarrays on vertical graphenes: an advanced three-dimensional sensing platform. Chemical Communications, 2012, 48, 2659.	2.2	36
23	The use of macroscopic modelling of intermetallic phases in aluminium alloys in the study of ferricyanide accelerated chromate conversion coatings. Corrosion Science, 2002, 44, 1755-1781.	3.0	35
24	Plasmas meet plasmonics. European Physical Journal D, 2012, 66, 1.	0.6	30
25	Interaction of Ce(dbp) ₃ with surface of aluminium alloy 2024-T3 using macroscopic models of intermetallic phases. Corrosion Engineering Science and Technology, 2009, 44, 416-424.	0.7	24
26	Microstructure of a Paint Primer - a Data-Constrained Modeling Analysis. Materials Science Forum, 0, 654-656, 1686-1689.	0.3	23
27	TENSOR LEED ANALYSES FOR THREE CHEMISORBED STRUCTURES FORMED BY IODINE ON A Pt(111) SURFACE. Surface Review and Letters, 1999, 06, 871-881.	0.5	22
28	A thermal desorption study of iodine on Pt(). Surface Science, 2003, 525, 149-158.	0.8	21
29	AIRLIFE - TOWARDS A FLEET MANAGEMENT TOOL FOR CORROSION DAMAGE. Corrosion Reviews, 2007, 25, 275-294.	1.0	17
30	Analytical representation of micropores for predicting gas adsorption in porous materials. Microporous and Mesoporous Materials, 2013, 167, 188-197.	2.2	17
31	A hybrid substrate for surface-enhanced Raman scattering spectroscopy: coupling metal nanoparticles to strong localised fields on a micro-structured surface. Journal of Raman Spectroscopy, 2012, 43, 196-201.	1.2	16
32	A Data-Constrained 3D Model for Material Compositional Microstructures. Advanced Materials Research, 2008, 32, 267-270.	0.3	14
33	Self-organization in arrays of surface-grown nanoparticles: characterization, control, driving forces. Journal Physics D: Applied Physics, 2011, 44, 174020.	1.3	13
34	Fabrication of nanoparticle micro-arrays patterned using direct write laser photoreduction. Applied Surface Science, 2008, 255, 2159-2161.	3.1	12
35	PLUXter: Rapid Discovery of Metal-Organic Framework Structures Using PCA and HCA of High Throughput Synchrotron Powder Diffraction Data. Combinatorial Chemistry and High Throughput Screening, 2011, 14, 28-35.	0.6	12
36	Solid-state ambient-temperature ultrahigh vacuum iodine source. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 256-257.	0.9	11

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37	Fabrication of photo-patterned microstructures in an organic-inorganic hybrid material incorporating silver nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2004, 347, 93-99.	1.5	11
38	Improving the detection limit of a quadrupole mass spectrometer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1032-1033.	0.9	7
39	Multilayered coatings: Tuneable protection for metals. <i>Corrosion Science</i> , 2010, 52, 3847-3850.	3.0	7
40	Minimizing the Gibbs-Thomson effect in the low-temperature plasma synthesis of thin Si nanowires. <i>Nanotechnology</i> , 2011, 22, 315707.	1.3	2
41	A Data-Constrained 3D Model for Material Compositional Microstructures. <i>Advanced Materials Research</i> , 0, , 267-270.	0.3	1