Scott A Furman

List of Publications by Year
in descending order

41 papers	1,763 citations	257101 24 h-index	301761 39 g-index
41 all docs	41 docs citations	41 times ranked	1712 citing authors

#	Article	IF	Citations
1	Microplasma-chemical synthesis and tunable real-time plasmonic responses of alloyed Au_xAg_{1â^'x} nanoparticles. Chemical Communications, 2014, 50, 3144-3147.	2.2	50
2	Fast, energy-efficient synthesis of luminescent carbon quantum dots. Green Chemistry, 2014, 16, 2566-2570.	4.6	116
3	Plasmonic Ag nanoparticles via environment-benign atmospheric microplasma electrochemistry. Nanotechnology, 2013, 24, 095604.	1.3	62
4	Analytical representation of micropores for predicting gas adsorption in porous materials. Microporous and Mesoporous Materials, 2013, 167, 188-197.	2.2	17
5	Plasmas meet plasmonics. European Physical Journal D, 2012, 66, 1.	0.6	30
6	Self-organized Au nanoarrays on vertical graphenes: an advanced three-dimensional sensing platform. Chemical Communications, 2012, 48, 2659.	2.2	36
7	Confirmation of the healing mechanism in a mendable EMAAâ€“epoxy resin. European Polymer Journal, 2012, 48, 524-531.	2.6	74
8	A hybrid substrate for surfaceâ€enhanced Raman scattering spectroscopy: coupling metal nanoparticles to strong localised fields on a microâ€structured surface. Journal of Raman Spectroscopy, 2012, 43, 196-201.	1.2	16
9	Controlled synthesis of a large fraction of metallic single-walled carbon nanotube and semiconducting carbon nanowire networks. Nanoscale, 2011, 3, 3214.	2.8	45
10	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
11	Self-organization in arrays of surface-grown nanoparticles: characterization, control, driving forces. Journal Physics D: Applied Physics, 2011, 44, 174020.	1.3	13
12	Minimizing the Gibbsâ€“Thomson effect in the low-temperature plasma synthesis of thin Si nanowires. Nanotechnology, 2011, 22, 315707.	1.3	2
13	Applying SEMâ€Based Xâ€ray Microtomography to Observe Selfâ€Healing in Solvent Encapsulated Thermoplastic Materials. Advanced Engineering Materials, 2010, 12, 228-234.	1.6	59
14	Poly[ethyleneâ€coâ€(methacrylic acid)] Healing Agents for Mendable Carbon Fiber Laminates. Macromolecular Materials and Engineering, 2010, 295, 420-424.	1.7	72
15	FTIR study of bonding between a thermoplastic healing agent and a mendable epoxy resin. Vibrational Spectroscopy, 2010, 52, 10-15.	1.2	106
16	Pitting of zinc: Observations on atmospheric corrosion in tropical countries. Corrosion Science, 2010, 52, 848-858.	3.0	50
17	Multilayered coatings: Tuneable protection for metals. Corrosion Science, 2010, 52, 3847-3850.	3.0	7
18	Interaction of Ce(dbp)₃with surface of aluminium alloy 2024-T3 using macroscopic models of intermetallic phases. Corrosion Engineering Science and Technology, 2009, 44, 416-424.	0.7	24

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19	Polyethylene-co-methacrylic acid healing agents for mendable epoxy resins. Acta Materialia, 2009, 57, 4312-4320.	3.8	115
20	A rapid screening multi-electrode method for the evaluation of corrosion inhibitors. Electrochimica Acta, 2009, 54, 3402-3411.	2.6	97
21	High-throughput channel arrays for inhibitor testing: Proof of concept for AA2024-T3. Corrosion Science, 2009, 51, 2279-2290.	3.0	44
22	Fabrication of nanoparticle micro-arrays patterned using direct write laser photoreduction. Applied Surface Science, 2008, 255, 2159-2161.	3.1	12
23	Multispectral and hyperspectral image analysis of elemental and micro-Raman maps of cross-sections from a 16th century painting. Analytica Chimica Acta, 2008, 610, 15-24.	2.6	68
24	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
25	A Data-Constrained 3D Model for Material Compositional Microstructures. Advanced Materials Research, 2008, 32, 267-270.	0.3	14
26	Pitting Corrosion of Zn and Zn-Al Coated Steels in pH 2 to 12 NaCl Solutions. Journal of the Electrochemical Society, 2007, 154, C7.	1.3	45
27	AIRLIFE - TOWARDS A FLEET MANAGEMENT TOOL FOR CORROSION DAMAGE. Corrosion Reviews, 2007, 25, 275-294.	1.0	17
28	Corrosion in artificial defects. II. Chromate reactions. Corrosion Science, 2006, 48, 1827-1847.	3.0	46
29	Corrosion in artificial defects. I: Development of corrosion. Corrosion Science, 2006, 48, 1812-1826.	3.0	38
30	Chromate leaching from inhibited primers. Progress in Organic Coatings, 2006, 56, 23-32.	1.9	59
31	Chromate leaching from inhibited primers. Progress in Organic Coatings, 2006, 56, 33-38.	1.9	50
32	Fabrication of photo-patterned microstructures in an organicâ€“inorganic hybrid material incorporating silver nanoparticles. Journal of Non-Crystalline Solids, 2004, 347, 93-99.	1.5	11
33	A thermal desorption study of iodine on Pt(). Surface Science, 2003, 525, 149-158.	0.8	21
34	Holistic model for atmospheric corrosion: Part 2 - Experimental measurement of deposition of marine salts in a number of long range studies. Corrosion Engineering Science and Technology, 2003, 38, 259-266.	0.7	49
35	The initiation mechanism of corrosion of zinc by sodium chloride particle deposition. Corrosion Science, 2002, 44, 555-572.	3.0	145
36	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

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37	Improving the detection limit of a quadrupole mass spectrometer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1032-1033.	0.9	7
38	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
39	Solidâ€state ambientâ€temperature ultrahigh vacuum iodine source. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 256-257.	0.9	11
40	Microstructure of a Paint Primer - a Data-Constrained Modeling Analysis. Materials Science Forum, 0, 654-656, 1686-1689.	0.3	23
41	A Data-Constrained 3D Model for Material Compositional Microstructures. Advanced Materials Research, 0, , 267-270.	0.3	1