

James F Rohan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,012

citations

18

h-index

30

g-index

79

ext. papers

1,154

ext. citations

4.3

avg, IF

4.51

L-index

#	Paper	IF	Citations
62	Copper Chloro-Complexes Concentrated Solutions: An Electrochemical Study. <i>Batteries</i> , 2021 , 7, 83	5.7	1
61	Methods for latent image simulations in photolithography with a polychromatic light attenuation equation for fabricating VIAs in 2.5D and 3D advanced packaging architectures. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 39	7.7	1
60	Advanced Solid State Nano-Electrochemical Sensors and System for Agri 4.0 Applications. <i>Sensors</i> , 2021 , 21,	3.8	6
59	Electrochemical Discrimination of Salbutamol from Its Excipients in Ventolin at Nanoporous Gold Microdisc Arrays. <i>Sensors</i> , 2021 , 21,	3.8	1
58	High-Rate Lithium-Ion Cycling in Electrodeposited Binder-Free Thin-Film Vanadium Oxide Cathodes with Lithium Metal Anodes in Ionic Liquid and Polymer Gel Analogue Electrolytes. <i>Batteries and Supercaps</i> , 2021 , 4, 485-492	5.6	1
57	Elimination of Oxygen Interference in the Electrochemical Detection of Monochloramine, Using pH Control at Interdigitated Electrodes. <i>ACS Sensors</i> , 2021 , 6, 1030-1038	9.2	4
56	A simulation and experimental study of electrochemical pH control at gold interdigitated electrode arrays. <i>Electrochimica Acta</i> , 2021 , 395, 139113	6.7	1
55	Electrochemical detection of free-chlorine in Water samples facilitated by in-situ pH control using interdigitated microelectrodes. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128774	8.5	18
54	Portable Data Acquisition System for Nano and Ultra-Micro Scale Electrochemical Sensors. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	6
53	Pyrrrolidinium Containing Ionic Liquid Electrolytes for Li-Based Batteries. <i>Molecules</i> , 2020 , 25,	4.8	7
52	Simulations of 3D nanoscale architectures and electrolyte characteristics for Li-ion microbatteries. <i>Journal of Energy Storage</i> , 2019 , 23, 1-8	7.8	10
51	Ionic Liquid Based Polymer Gel Electrolytes for Use with Germanium Thin Film Anodes in Lithium Ion Batteries. <i>ChemistryOpen</i> , 2019 , 8, 1429-1436	2.3	9
50	Diffusion profile simulations and enhanced iron sensing in generator-collector mode at interdigitated nanowire electrode arrays. <i>Electrochimica Acta</i> , 2018 , 277, 235-243	6.7	13
49	Ultra-Fast Cycling of Nanoscale Thin-Film LiCoO ₂ Electrodes in Aqueous Electrolytes. <i>ChemElectroChem</i> , 2018 , 5, 3273-3278	4.3	5
48	Facile Electrochemical Synthesis of Pd Nanoparticles with Enhanced Electrocatalytic Properties from Surfactant-Free Electrolyte. <i>ChemElectroChem</i> , 2018 , 5, 619-629	4.3	5
47	Enhanced Mass Activity and Stability of Bimetallic Pd-Ni Nanoparticles on Boron-Doped Diamond for Direct Ethanol Fuel Cell Applications. <i>ChemElectroChem</i> , 2018 , 5, 455-463	4.3	16
46	Enhanced In-Plane Anisotropy and Ferromagnetic Resonance Frequency in Permalloy Films Laminated With Nitrogen-Doped Tantalum. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-4	1.6	4

45	Electrochemically deposited Cu ₂ O cubic particles on boron doped diamond substrate as efficient photocathode for solar hydrogen generation. <i>Applied Surface Science</i> , 2017 , 408, 125-134	6.7	28
44	Electrochemically modified boron-doped diamond electrode with Pd and Pd-Sn nanoparticles for ethanol electrooxidation. <i>Electrochimica Acta</i> , 2017 , 243, 310-319	6.7	24
43	Nanoenabling electrochemical sensors for life sciences applications. <i>Journal of Materials Research</i> , 2017 , 32, 2883-2904	2.5	5
42	Power inside [Applications and technologies for integrated power in microelectronics 2017 ,		2
41	High-aspect-ratio photoresist processing for fabrication of high resolution and thick micro-windings. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 105012	2	7
40	MEMS based fabrication of high-frequency integrated inductors on NiCuZn ferrite substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 406, 89-94	2.8	22
39	MEMS based electrochemical process for fabrication of laminated micro-inductors on silicon. <i>Microelectronic Engineering</i> , 2016 , 155, 33-38	2.5	7
38	Core-shell Nanoarchitectures for Lithium-Ion Energy Storage Applications. <i>MRS Advances</i> , 2016 , 1, 1055-1060		6
37	Palladium Activated Self-Assembled Monolayer for Magnetics on Silicon Applications. <i>Physics Procedia</i> , 2015 , 75, 1207-1213		6
36	Anisotropic NiBeB films with varying alloy composition for high frequency magnetics on silicon applications. <i>Applied Surface Science</i> , 2015 , 357, 385-390	6.7	16
35	Smart Energy Management and Conversion 2014 , 249-275		
34	Frontiers of Cu Electrodeposition and Electroless Plating for On-chip Interconnects. <i>Nanostructure Science and Technology</i> , 2014 , 99-113	0.9	2
33	High frequency DC-DC converter with co-packaged planar inductor and power IC 2013 ,		6
32	Porous alumina thin films on conductive substrates for templated 1-dimensional nanostructuring. <i>Solid State Ionics</i> , 2012 , 216, 110-113	3.3	8
31	Ni nanowire supported 3D flower-like Pd nanostructures as an efficient electrocatalyst for electrooxidation of ethanol in alkaline media. <i>Journal of Power Sources</i> , 2012 , 218, 148-156	8.9	52
30	High efficiency Si integrated micro-transformers using stacked copper windings for power conversion applications 2012 ,		13
29	Nanotemplated platinum fuel cell catalysts and copper in lithium battery anode materials for microenergy devices. <i>Electrochimica Acta</i> , 2011 , 56, 9537-9541	6.7	7
28	Nanoporous gold anode catalyst for direct borohydride fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10319-10326	6.7	73

27	Nanoporous Gold Catalyst for Direct Ammonia Borane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B772	3.9	24
26	(Invited) Integrated Microinductors on Semiconductor Substrates for Power Supply on Chip. <i>ECS Transactions</i> , 2011 , 41, 341-347	1	3
25	Cu Electrodeposition from Methanesulfonate Electrolytes for ULSI and MEMS Applications. <i>Journal of the Electrochemical Society</i> , 2010 , 157, D278	3.9	39
24	Nanotubes of Core/Shell Cu/Cu ₂ O as Anode Materials for Li-Ion Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A682	3.9	28
23	Direct Oxidation of Ammonia Borane as an Alternative Fuel at Nanoporous Au. <i>ECS Transactions</i> , 2009 , 25, 13-25	1	2
22	Core/Shell (Cu/Cu ₂ O) Nanotubes as High Performance Anode Materials for Li-ion Rechargeable Batteries. <i>ECS Transactions</i> , 2009 , 19, 3-15	1	3
21	Fabrication of three-dimensional substrates for Li microbatteries on Si. <i>Applied Surface Science</i> , 2009 , 256, S61-S64	6.7	18
20	Additive influence on Cu nanotube electrodeposition in anodised aluminium oxide templates. <i>Electrochemistry Communications</i> , 2009 , 11, 1203-1206	5.1	30
19	Electroless thin film CoNiFeB alloys for integrated magnetics on Si. <i>Electrochimica Acta</i> , 2009 , 54, 1851-1856	6.5	6
18	Influence of Carbon Nanotubes on the Electrodeposition of Copper Interconnects. <i>ECS Transactions</i> , 2009 , 25, 37-46	1	3
17	Energy scavenging for long-term deployable wireless sensor networks. <i>Talanta</i> , 2008 , 75, 613-23	6.2	177
16	Electroless nickel/gold Ohmic contacts to p-type GaN. <i>Applied Physics Letters</i> , 2008 , 92, 062113	3.4	5
15	Aligned carbon nanotube/Pt composite fuel cell catalyst by template electrodeposition. <i>Journal of Power Sources</i> , 2008 , 185, 411-418	8.9	26
14	Coaxial metal and magnetic alloy nanotubes in polycarbonate templates by electroless deposition. <i>Electrochemistry Communications</i> , 2008 , 10, 1419-1422	5.1	34
13	Preparation and Temperature Cycling Reliability of Electroless Ni(P) Under Bump Metallization. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2007 , 30, 144-151		1
12	DMAB Oxidation for Electroless Deposition from Alkaline Solutions. <i>ECS Transactions</i> , 2006 , 1, 1-9	1	2
11	Ammonia Borane Oxidation at Gold Microelectrodes in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C773	3.9	45
10	LED flip-chip assembly with electroplated AuSn alloy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2907-2911		5

9	Zincate-Free, Electroless Nickel Deposition on Aluminum Bond Pads. <i>Journal of the Electrochemical Society</i> , 2005 , 152, C32	3.9	7
8	Investigation of DMAB Oxidation at a Gold Microelectrode in Base. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, C77-C80		37
7	Degradation of electroless Ni(P) under-bump metallization in Sn3.5Ag and Sn37Pb solders during high-temperature storage. <i>Journal of Electronic Materials</i> , 2004 , 33, 900-907	1.9	3
6	Characterisation of the electroless nickel deposit as a barrier layer/under bump metallurgy on IC metallisation. <i>Microelectronic Engineering</i> , 2003 , 65, 77-85	2.5	10
5	Selective electroless nickel deposition on copper as a final barrier/bonding layer material for microelectronics applications. <i>Applied Surface Science</i> , 2002 , 185, 289-297	6.7	60
4	Stress Modelling of Multi Level Interconnect Schemes For Future Deep Submicron Device Generations 2001 , 364-367		
3	Microelectrode studies of the lithium/propylene carbonate systemPart II. studies of bulk lithium deposition and dissolution. <i>Electrochimica Acta</i> , 1994 , 39, 2015-2023	6.7	17
2	Microelectrode studies of the lithium/propylene carbonate systemPart I. Electrode reactions at potentials positive to lithium deposition. <i>Electrochimica Acta</i> , 1994 , 39, 1369-1376	6.7	33
1	Generation of Hydrous Oxide Species at Carbon-Supported, Finely Divided Platinum Surfaces. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1600-1605	3.9	6