Gary W Rubloff

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.

61 262 14,539 111 h-index g-index citations papers 15,682 6.33 6.5 278 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
262	Nanoscale Li, Na, and K ion-conducting polyphosphazenes by atomic layer deposition <i>Dalton Transactions</i> , 2022 ,	4.3	1
261	Low temperature plasma-enhanced atomic layer deposition of sodium phosphorus oxynitride with tunable nitrogen content. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 032403	2.9	О
260	Ion-Conducting, Electron-Blocking Layer for High-Performance Solid Electrolytes. <i>Small Structures</i> , 2021 , 2, 2100014	8.7	11
259	Al2O3 Thin Films on Magnesium: Assessing the Impact of an Artificial Solid Electrolyte Interphase. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	2
258	Nanoscale depth and lithiation dependence of V2O5 band structure by cathodoluminescence spectroscopy. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11800-11810	13	5
257	Mg ion-catalyzed polymerization of 1,3-dioxolane in battery electrolytes. <i>Chemical Communications</i> , 2020 , 56, 4583-4586	5.8	5
256	Suppression of hydrogen evolution at catalytic surfaces in aqueous lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14921-14926	13	9
255	Li-Containing Organic Thin FilmBtructure of Lithium Propane Dioxide via Molecular Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6830-6837	3.8	7
254	Atomic Layer Deposition of Sodium Phosphorus Oxynitride: A Conformal Solid-State Sodium-Ion Conductor. <i>ACS Applied Materials & Samp; Interfaces</i> , 2020 , 12, 21641-21650	9.5	12
253	Enabling high performance all-solid-state lithium metal batteries using solid polymer electrolytes plasticized with ionic liquid. <i>Electrochimica Acta</i> , 2020 , 345, 136156	6.7	21
252	Elucidating Structural Transformations in LixV2O5 Electrochromic Thin Films by Multimodal Spectroscopies. <i>Chemistry of Materials</i> , 2020 , 32, 7226-7236	9.6	5
251	Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. <i>ACS Nano</i> , 2019 , 13, 8481-8489	16.7	3
250	High-capacity lithium sulfur battery and beyond: a review of metal anode protection layers and perspective of solid-state electrolytes. <i>Journal of Materials Science</i> , 2019 , 54, 3671-3693	4.3	70
249	Three-Dimensional Solid-State Lithium-Ion Batteries Fabricated by Conformal Vapor-Phase Chemistry. <i>ACS Nano</i> , 2018 , 12, 4286-4294	16.7	68
248	Kinetics-Controlled Degradation Reactions at Crystalline LiPON/Li CoO and Crystalline LiPON/Li-Metal Interfaces. <i>ChemSusChem</i> , 2018 , 11, 1956-1969	8.3	24
247	Nanoscale Protection Layers To Mitigate Degradation in High-Energy Electrochemical Energy Storage Systems. <i>Accounts of Chemical Research</i> , 2018 , 51, 97-106	24.3	25
246	Investigation of the water-stimulated Mg insertion mechanism in an electrodeposited MnO cathode using X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2517-25	5 26 6	17

(2016-2018)

245	Tin Oxynitride Anodes by Atomic Layer Deposition for Solid-State Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 2526-2534	9.6	10
244	Electrochemically Controlled Solid Electrolyte Interphase Layers Enable Superior Li-S Batteries. <i>ACS Applied Materials & Discrete Applied &</i>	9.5	29
243	Highly Conductive, Light Weight, Robust, Corrosion-Resistant, Scalable, All-Fiber Based Current Collectors for Aqueous Acidic Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702615	21.8	46
242	Impact of pore size, interconnections, and dynamic conductivity on the electrochemistry of vanadium pentoxide in well defined porous structures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29708-29716	3.6	2
241	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , 2018 , 12, 5266-5273	16.7	36
240	Nanoscale Solid State Batteries Enabled by Thermal Atomic Layer Deposition of a Lithium Polyphosphazene Solid State Electrolyte. <i>Chemistry of Materials</i> , 2017 , 29, 3740-3753	9.6	90
239	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , 2017 , 16, 572-579	27	1192
238	Highly Reversible Conversion-Type FeOF Composite Electrode with Extended Lithium Insertion by Atomic Layer Deposition LiPON Protection. <i>Chemistry of Materials</i> , 2017 , 29, 8780-8791	9.6	29
237	Electron Microscopy Study of ALD Protective Coating on the FeOF Electrode. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2056-2057	0.5	1
236	High performance asymmetric VO-SnO nanopore battery by atomic layer deposition. <i>Nanoscale</i> , 2017 , 9, 11566-11573	7.7	18
235	Stabilization of Lithium Metal Anodes by Hybrid Artificial Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , 2017 , 29, 6298-6307	9.6	124
234	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. <i>Advanced Energy Materials</i> , 2017 , 7, 1601526	21.8	238
233	A Novel Approach in Sample Preparation of Li Content Materials for TEM Research. <i>Microscopy and Microanalysis</i> , 2017 , 23, 308-309	0.5	
232	ALD Protection of Li-Metal Anode Surfaces Quantifying and Preventing Chemical and Electrochemical Corrosion in Organic Solvent. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600426	4.6	43
231	Electrochemical Thin Layers in Nanostructures for Energy Storage. <i>Accounts of Chemical Research</i> , 2016 , 49, 2336-2346	24.3	20
230	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie</i> , 2016 , 128, 10052-10	055	50
229	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9898-901	16.4	168
228	Interconnected mesoporous VO electrode: impact on lithium ion insertion rate. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 30605-30611	3.6	6

227	The reaction current distribution in battery electrode materials revealed by XPS-based state-of-charge mapping. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19093-102	3.6	11
226	Protocols for Evaluating and Reporting Li-O2 Cell Performance. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 211-5	6.4	21
225	Solid Electrolyte Lithium Phosphous Oxynitride as a Protective Nanocladding Layer for 3D High-Capacity Conversion Electrodes. <i>ACS Nano</i> , 2016 , 10, 2693-701	16.7	43
224	Perspectives in flow-based microfluidic gradient generators for characterizing bacterial chemotaxis. <i>Biomicrofluidics</i> , 2016 , 10, 061301	3.2	15
223	Distal modulation of bacterial cell-cell signalling in a synthetic ecosystem using partitioned microfluidics. <i>Lab on A Chip</i> , 2015 , 15, 1842-51	7.2	26
222	Atomic Layer Deposition of the Solid Electrolyte LiPON. <i>Chemistry of Materials</i> , 2015 , 27, 5324-5331	9.6	172
221	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. <i>Polymers</i> , 2015 , 7, 1-46	4.5	74
220	Investigation of the Cathodellatalystellectrolyte Interface in Aprotic LiD2 Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 5305-5313	9.6	47
219	New science at the meso frontier: Dense nanostructure architectures for electrical energy storage. Current Opinion in Solid State and Materials Science, 2015, 19, 227-234	12	11
218	Next-Generation Lithium Metal Anode Engineering via Atomic Layer Deposition. <i>ACS Nano</i> , 2015 , 9, 58	84 :0 .7	573
218	Next-Generation Lithium Metal Anode Engineering via Atomic Layer Deposition. <i>ACS Nano</i> , 2015 , 9, 58 DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Acs Applied Materials</i> & 2015, 7, 11402-11	84 .0 .7 9.5	573 57
	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental	,	
217	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Distriction Control for barrier-oxide thinning and 3D interconnected pores and direct electrodeposition of nanowire networks on native aluminium substrates. Physical Chemistry</i>	9.5	57
217	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Distriction Control for barrier-oxide thinning and 3D interconnected pores and direct electrodeposition of nanowire networks on native aluminium substrates. Physical Chemistry Chemical Physics, 2015</i> , 17, 3873-9 Electrode Degradation Study of Vertically Aligned Carbon Nanotubes on a 3D Integrated Current	9.5	57 9
217216215	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Distriction (Control for barrier-oxide thinning and 3D interconnected pores and direct electrodeposition of nanowire networks on native aluminium substrates. Physical Chemistry Chemical Physics, 2015, 17, 3873-9</i> Electrode Degradation Study of Vertically Aligned Carbon Nanotubes on a 3D Integrated Current Collector. <i>Journal of the Electrochemical Society,</i> 2015, 162, A2372-A2377 Surface/Interface Effects on High-Performance Thin-Film All-Solid-State Li-Ion Batteries. <i>ACS</i>	9.5 3.6 3.9	57 9 1
217216215214	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Distriction (Control for barrier-oxide thinning and 3D interconnected pores and direct electrodeposition of nanowire networks on native aluminium substrates. Physical Chemistry Chemical Physics, 2015, 17, 3873-9 Electrode Degradation Study of Vertically Aligned Carbon Nanotubes on a 3D Integrated Current Collector. <i>Journal of the Electrochemical Society, 2015, 162, A2372-A2377</i> Surface/Interface Effects on High-Performance Thin-Film All-Solid-State Li-Ion Batteries. <i>ACS Applied Materials & Distriction (Control for May Science) and the Performance (Control f</i></i>	9.5 3.6 3.9	57 9 1 24 185
217216215214213	DMSO-Li2O2 Interface in the Rechargeable Li-O2 Battery Cathode: Theoretical and Experimental Perspectives on Stability. <i>ACS Applied Materials & Distriction on Stability. ACS Applied Materials & Distriction of Nanotical Physics and direct electrodeposition of nanowire networks on native aluminium substrates. <i>Physical Chemistry Chemical Physics,</i> 2015, 17, 3873-9 Electrode Degradation Study of Vertically Aligned Carbon Nanotubes on a 3D Integrated Current Collector. <i>Journal of the Electrochemical Society,</i> 2015, 162, A2372-A2377 Surface/Interface Effects on High-Performance Thin-Film All-Solid-State Li-Ion Batteries. <i>ACS Applied Materials & Distriction May</i> Shattery Chemistry through Li(+) mediation. <i>Journal of the American Chemical Society,</i> 2015, 137, 12388-93 Fabrication of 3D core-shell multiwalled carbon nanotube@RuO2 lithium-ion battery electrodes</i>	9.5 3.6 3.9 9.5	57 9 1 24 185

(2013-2014)

209	Nanostructured Pseudocapacitors Based on Atomic Layer Deposition of V2O5 onto Conductive Nanocrystal-based Mesoporous ITO Scaffolds. <i>Advanced Functional Materials</i> , 2014 , 24, 6717-6728	15.6	68
208	An all-in-one nanopore battery array. <i>Nature Nanotechnology</i> , 2014 , 9, 1031-9	28.7	164
207	Electronic modulation of biochemical signal generation. <i>Nature Nanotechnology</i> , 2014 , 9, 605-10	28.7	43
206	Air bubble-initiated biofabrication of freestanding, semi-permeable biopolymer membranes in PDMS microfluidics. <i>Biochemical Engineering Journal</i> , 2014 , 89, 2-9	4.2	19
205	Investigation of Atomic Layer Deposited Metal Oxide Layers for Conservation of Metal Cultural Heritage Objects*. <i>Microscopy and Microanalysis</i> , 2014 , 20, 2002-2003	0.5	
204	Atomic Layer Deposition and in Situ Characterization of Ultraclean Lithium Oxide and Lithium Hydroxide. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27749-27753	3.8	58
203	In situ transmission electron microscopy study of electrochemical lithiation and delithiation cycling of the conversion anode RuO2. <i>ACS Nano</i> , 2013 , 7, 6354-60	16.7	69
202	Perspective: hybrid systems combining electrostatic and electrochemical nanostructures for ultrahigh power energy storage. <i>Energy and Environmental Science</i> , 2013 , 6, 2578	35.4	29
201	From nanoscience to solutions in electrochemical energy storage. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 058503	2.9	14
200	Biofabricating the Bio-Device Interface Using Biological Materials and Mechanisms 2013 , 239-257		0
199	Reactivation of dissolved polysulfides in Liß batteries based on atomic layer deposition of Al2O3 in nanoporous carbon cloth. <i>Nano Energy</i> , 2013 , 2, 1197-1206	17.1	169
198	Examining the role of hydrogen in the electrical performance of in situ fabricated metal-insulator-metal trilayers using an atomic layer deposited Al2O3 dielectric. <i>Applied Physics Letters</i> , 2013 , 102, 173501	3.4	24
197	Solid flexible electrochemical supercapacitor using Tobacco mosaic virus nanostructures and ALD ruthenium oxide. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 114014	2	29
196	Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. <i>Soft Matter</i> , 2013 , 9, 2703	3.6	51
195	A beaded-string silicon anode. ACS Nano, 2013, 7, 2717-24	16.7	65
194	Accessing biology@toolbox for the mesoscale biofabrication of soft matter. <i>Soft Matter</i> , 2013 , 9, 6019	3.6	30
193	Natural cellulose fiber as substrate for supercapacitor. ACS Nano, 2013, 7, 6037-46	16.7	267
192	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. <i>Lab on A Chip</i> , 2013 , 13, 1854-8	7.2	33

191	Role of mesoporosity in cellulose fibers for paper-based fast electrochemical energy storage. Journal of Materials Chemistry A, 2013 , 1, 8201	13	23
190	Cathodic ALD V2O5 thin films for high-rate electrochemical energy storage. <i>RSC Advances</i> , 2013 , 3, 429	143.7	49
189	Evidence for hydrogen two-level systems in atomic layer deposition oxides. <i>Applied Physics Letters</i> , 2013 , 103, 162601	3.4	16
188	Autonomous bacterial localization and gene expression based on nearby cell receptor density. <i>Molecular Systems Biology</i> , 2013 , 9, 636	12.2	56
187	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. <i>Biomaterials</i> , 2012 , 33, 5136-43	15.6	39
186	Conduction in ultrathin ruthenium electrodes prepared by atomic layer deposition. <i>Materials Letters</i> , 2012 , 73, 43-46	3.3	15
185	Electrochemical performance of the nanostructured biotemplated V2O5 cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012 , 206, 282-287	8.9	65
184	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. <i>Advanced Functional Materials</i> , 2012 , 22, 519-528	15.6	52
183	Ozone-Based Atomic Layer Deposition of Crystalline V2O5 Films for High Performance Electrochemical Energy Storage. <i>Chemistry of Materials</i> , 2012 , 24, 1255-1261	9.6	110
182	Electrodeposition of a biopolymeric hydrogel: potential for one-step protein electroaddressing. <i>Biomacromolecules</i> , 2012 , 13, 1181-9	6.9	68
181	Characterization of the cathodic electrodeposition of semicrystalline chitosan hydrogel. <i>Materials Letters</i> , 2012 , 87, 97-100	3.3	37
180	Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7659		71
179	Nanoengineering strategies for metal-insulator-metal electrostatic nanocapacitors. <i>ACS Nano</i> , 2012 , 6, 3528-36	16.7	57
178	MWCNT/V2O5 core/shell sponge for high areal capacity and power density Li-ion cathodes. <i>ACS Nano</i> , 2012 , 6, 7948-55	16.7	219
177	Direct SERS detection of contaminants in a complex mixture: rapid, single step screening for melamine in liquid infant formula. <i>Analyst, The</i> , 2012 , 137, 826-8	5	62
176	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuli-Responsive Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 3004-3012	15.6	50
175	Integrated biofabrication for electro-addressed in-film bioprocessing. <i>Biotechnology Journal</i> , 2012 , 7, 428-39	5.6	10
174	Role of surface intermediates in enhanced, uniform growth rates of TiO2 atomic layer deposition thin films using titanium tetraisopropoxide and ozone. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 01A150	2.9	18

173	Confined propagation of covalent chemical reactions on single-walled carbon nanotubes. <i>Nature Communications</i> , 2011 , 2, 382	17.4	63
172	Atomic Layer Deposition of Ruthenium Using the Novel Precursor bis(2,6,6-trimethyl-cyclohexadienyl)ruthenium. <i>Chemistry of Materials</i> , 2011 , 23, 2650-2656	9.6	44
171	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. <i>Lab on A Chip</i> , 2011 , 11, 2316-8	7.2	56
170	Biofabrication of chitosan-silver composite SERS substrates enabling quantification of adenine by a spectroscopic shift. <i>Biofabrication</i> , 2011 , 3, 034108	10.5	10
169	Coupling electrodeposition with layer-by-layer assembly to address proteins within microfluidic channels. <i>Advanced Materials</i> , 2011 , 23, 5817-21	24	71
168	Mixed mode, ionic-electronic diode using atomic layer deposition of V2O5 and ZnO films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15391		9
167	MnO2/TiN heterogeneous nanostructure design for electrochemical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15221-6	3.6	47
166	High to ultra-high power electrical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2071	1-336	109
165	Electroaddressing agarose using Fmoc-phenylalanine as a temporary scaffold. <i>Langmuir</i> , 2011 , 27, 7380)-4	20
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164	Mechanism of anodic electrodeposition of calcium alginate. <i>Soft Matter</i> , 2011 , 7, 5677	3.6	86
164	Mechanism of anodic electrodeposition of calcium alginate. <i>Soft Matter</i> , 2011 , 7, 5677 Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708	3.6	10
, i	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> ,	10.3	
163	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708 Correlation of Raman, electrical, and optical properties of high-patomic layer deposited Al-doped	10.3	10
163	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708 Correlation of Raman, electrical, and optical properties of high-platomic layer deposited Al-doped TiO2. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 0418 Impact of parasitic reactions on wafer-scale uniformity in water-based and ozone-based atomic	10.3 0 ^{7.3} 1509	10 7
163 162 161	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708 Correlation of Raman, electrical, and optical properties of high-platomic layer deposited Al-doped TiO2. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 0418 Impact of parasitic reactions on wafer-scale uniformity in water-based and ozone-based atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 05	10.3 0 ^{7.3} 1509	10 7 24
163 162 161	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708 Correlation of Raman, electrical, and optical properties of high-patomic layer deposited Al-doped TiO2. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 0418 Impact of parasitic reactions on wafer-scale uniformity in water-based and ozone-based atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 053 Biofabrication to build the biology-device interface. <i>Biofabrication</i> , 2010 , 2, 022002 Structural, electrical, and optical properties of atomic layer deposition Al-doped ZnO films. <i>Journal</i>	10.3 07 ⁻³ 1509	10 7 24 73
163 162 161 160	Chitosan to electroaddress biological components in lab-on-a-chip devices. <i>Carbohydrate Polymers</i> , 2011 , 84, 704-708 Correlation of Raman, electrical, and optical properties of high-patomic layer deposited Al-doped TiO2. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 0418 Impact of parasitic reactions on wafer-scale uniformity in water-based and ozone-based atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 05: Biofabrication to build the biology-device interface. <i>Biofabrication</i> , 2010 , 2, 022002 Structural, electrical, and optical properties of atomic layer deposition Al-doped ZnO films. <i>Journal of Applied Physics</i> , 2010 , 108, 043504 Applicability of Surface Enhanced Raman Spectroscopy for Determining the Concentration of	10.3 0 ^{7.3} 1509 10.5	10 7 24 73 278

155	Formation of Dendritic Silver Substrates by Galvanic Displacement for Surface Enhanced Raman Spectroscopy. <i>IFMBE Proceedings</i> , 2010 , 313-316	0.2	
154	In situ generation of pH gradients in microfluidic devices for biofabrication of freestanding, semi-permeable chitosan membranes. <i>Lab on A Chip</i> , 2010 , 10, 59-65	7.2	50
153	Mechanism and Direct Visualization of Electrodeposition of the Polysaccharide Chitosan. <i>IFMBE Proceedings</i> , 2010 , 401-403	0.2	
152	Biological nanofactories facilitate spatially selective capture and manipulation of quorum sensing bacteria in a bioMEMS device. <i>Lab on A Chip</i> , 2010 , 10, 1128-34	7.2	31
151	In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. <i>Soft Matter</i> , 2010 , 6, 3177	3.6	130
150	In-Film Bioprocessing and Immunoanalysis with Electroaddressable Stimuli-Responsive Polysaccharides. <i>Advanced Functional Materials</i> , 2010 , 20, 1645-1652	15.6	32
149	Integration of Diverse Biological Materials in Micro/Nano Devices. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010 , 275-285	0.2	
148	ALD based Metal-insulator-metal (MIM) Nanocapacitors for Energy Storage. <i>ECS Transactions</i> , 2009 , 25, 345-353	1	10
147	Electroaddressing of Cell Populations by Co-Deposition with Calcium Alginate Hydrogels. <i>Advanced Functional Materials</i> , 2009 , 19, 2074-2080	15.6	101
146	Nanotubular metal-insulator-metal capacitor arrays for energy storage. <i>Nature Nanotechnology</i> , 2009 , 4, 292-6	28.7	307
145	Spatial resolution in chitosan-based programmable biomolecular scaffolds. <i>Soft Matter</i> , 2009 , 5, 3677	3.6	17
144	Crystallization Behavior of HfO2 Nanotubes in Different Environments. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1250-1251	0.5	3
143	Programmable assembly of a metabolic pathway enzyme in a pre-packaged reusable bioMEMS device. <i>Lab on A Chip</i> , 2008 , 8, 420-30	7.2	49
142	Design optimization for bioMEMS studies of enzyme-controlled metabolic pathways. <i>Biomedical Microdevices</i> , 2008 , 10, 899-908	3.7	12
141	TEM-based metrology for HfO2 layers and nanotubes formed in anodic aluminum oxide nanopore structures. <i>Small</i> , 2008 , 4, 1223-32	11	60
140	Chitosan biotinylation and electrodeposition for selective protein assembly. <i>Macromolecular Bioscience</i> , 2008 , 8, 451-7	5.5	23
139	Protein assembly onto patterned microfabricated devices through enzymatic activation of fusion pro-tag. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 499-507	4.9	31
138	Towards area-based in vitro metabolic engineering: assembly of Pfs enzyme onto patterned microfabricated chips. <i>Biotechnology Progress</i> , 2008 , 24, 1042-51	2.8	15

(2005-2008)

137	A comparative study of reactor designs for the production of graded films with applications to combinatorial CVD. <i>Journal of Crystal Growth</i> , 2008 , 310, 270-283	1.6	9
136	Mechano-transduction of DNA hybridization and dopamine oxidation through electrodeposited chitosan network. <i>Lab on A Chip</i> , 2007 , 7, 103-11	7.2	40
135	TMV microarrays: hybridization-based assembly of DNA-programmed viral nanotemplates. <i>Langmuir</i> , 2007 , 23, 2663-7	4	54
134	Towards an in vivo biologically inspired nanofactory. <i>Nature Nanotechnology</i> , 2007 , 2, 3-7	28.7	152
133	Real-time sensing and metrology for atomic layer deposition processes and manufacturing. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 130		22
132	Multiplexed mass spectrometry for real-time sensing in a spatially programmable chemical vapor deposition reactor. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1288		3
131	In Situ Mass Spectrometry for Chemical Identification in SiC Epitaxial Deposition. <i>Materials Science Forum</i> , 2007 , 556-557, 121-124	0.4	
130	Demonstration of spatially programmable chemical vapor deposition: Model-based uniformityBonuniformity control. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2706		7
129	Real-time observation and optimization of tungsten atomic layer deposition process cycle. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 780		20
128	Chitosan-mediated in situ biomolecule assembly in completely packaged microfluidic devices. <i>Lab on A Chip</i> , 2006 , 6, 1315-21	7.2	63
127	Electrochemical study of chitosan films deposited from solution at reducing potentials. <i>Electrochimica Acta</i> , 2006 , 51, 5324-5333	6.7	92
126	Validating gallium nitride growth kinetics using a precursor delivery showerhead as a novel chemical reactor. <i>Journal of Crystal Growth</i> , 2006 , 296, 15-26	1.6	8
125	A fabrication platform for electrically mediated optically active biofunctionalized sites in BioMEMS. <i>Lab on A Chip</i> , 2005 , 5, 583-6	7.2	24
124	Patterned assembly of genetically modified viral nanotemplates via nucleic acid hybridization. <i>Nano Letters</i> , 2005 , 5, 1931-6	11.5	136
123	Signal-directed sequential assembly of biomolecules on patterned surfaces. <i>Langmuir</i> , 2005 , 21, 2104-7	4	42
122	Biofabrication with chitosan. <i>Biomacromolecules</i> , 2005 , 6, 2881-94	6.9	593
121	Simulation-based design and experimental evaluation of a spatially controllable CVD reactor. <i>AICHE Journal</i> , 2005 , 51, 572-584	3.6	12
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