

# Gianluigi A Botton

## List of Publications by Citations

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370  
ext. papers

23,981  
ext. citations

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L-index

#	Paper	IF	Citations
356	Electron-energy-loss spectra and the structural stability of nickel oxide: An LSDA+U study. <i>Physical Review B</i> , <b>1998</b> , 57, 1505-1509	3.3	8200
355	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , <b>2016</b> , 7, 13638	17.4	1085
354	Size-selected synthesis of PtRu nano-catalysts: reaction and size control mechanism. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8028-37	16.4	611
353	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	589
352	Polymerization from the surface of single-walled carbon nanotubes - preparation and characterization of nanocomposites. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 16015-24	16.4	412
351	Nanocrystalline intermetallics on mesoporous carbon for direct formic acid fuel cell anodes. <i>Nature Chemistry</i> , <b>2010</b> , 2, 286-93	17.6	405
350	p-Type modulation doped InGaN/GaN dot-in-a-wire white-light-emitting diodes monolithically grown on Si(111). <i>Nano Letters</i> , <b>2011</b> , 11, 1919-24	11.5	218
349	Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron probe. <i>Nano Letters</i> , <b>2011</b> , 11, 1499-504	11.5	206
348	Comparison of Single Crystal and Polycrystalline LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> Positive Electrode Materials for High Voltage Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1534-A1544	3.9	187
347	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , <b>2019</b> , 10, 4936	17.4	186
346	Electronic Structure and Elastic Properties of Strongly Correlated Metal Oxides from First Principles: LSDA + U, SIC-LSDA and EELS Study of UO <sub>2</sub> and NiO. <i>Physica Status Solidi A</i> , <b>1998</b> , 166, 429-443		179
345	Controlling electron overflow in phosphor-free InGaN/GaN nanowire white light-emitting diodes. <i>Nano Letters</i> , <b>2012</b> , 12, 1317-23	11.5	157
344	The role of vacancies and defects in Na <sub>0.44</sub> MnO <sub>2</sub> nanowire catalysts for lithium-oxygen batteries. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9558	35.4	152
343	A model for the ultrastructure of bone based on electron microscopy of ion-milled sections. <i>PLoS ONE</i> , <b>2012</b> , 7, e29258	3.7	133
342	Materials science applications of HREELS in near edge structure analysis and low-energy loss spectroscopy. <i>Ultramicroscopy</i> , <b>2003</b> , 96, 535-46	3.1	133
341	Controlled orientation of liquid-crystalline polythiophene semiconductors for high-performance organic thin-film transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 142102	3.4	120
340	The Impact of Electrolyte Additives and Upper Cut-off Voltage on the Formation of a Rocksalt Surface Layer in LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A655-A665	3.9	116

339	Plasmonic response of bent silver nanowires for nanophotonic subwavelength waveguiding. <i>Physical Review Letters</i> , <b>2013</b> , 110, 066801	7.4	115
338	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , <b>2017</b> , 8, 1325	17.4	113
337	Soluble, Discrete Supramolecular Complexes of Single-Walled Carbon Nanotubes with Fluorene-Based Conjugated Polymers. <i>Macromolecules</i> , <b>2008</b> , 41, 2304-2308	5.5	111
336	Full-Color Single Nanowire Pixels for Projection Displays. <i>Nano Letters</i> , <b>2016</b> , 16, 4608-15	11.5	106
335	Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3890-3900	3.8	105
334	Encapsulation of conjugated oligomers in single-walled carbon nanotubes: towards nanohybrids for photonic devices. <i>Advanced Materials</i> , <b>2010</b> , 22, 1635-9	24	102
333	Electronic structure of possible 3d 'heavy-fermion' compound. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, L119-L126	1.8	102
332	Elucidating the Nature of the Active Phase in Copper/Ceria Catalysts for CO Oxidation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1675-1679	13.1	97
331	Chemical and biological integration of a mouldable bioactive ceramic material capable of forming apatite in vivo in teeth. <i>Biomaterials</i> , <b>2004</b> , 25, 2781-7	15.6	94
330	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703764	24	91
329	Bonding and structure of a reconstructed (001) surface of SrTiO <sub>3</sub> from TEM. <i>Nature</i> , <b>2012</b> , 490, 384-7	50.4	91
328	PtAuCo Alloy Electrocatalysts Demonstrating Enhanced Activity and Durability toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1513-1524	13.1	90
327	Enhanced and tunable surface plasmons in two-dimensional Ti <sub>3</sub> C <sub>2</sub> stacks: Electronic structure versus boundary effects. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	90
326	High efficiency solar-to-hydrogen conversion on a monolithically integrated InGaN/GaN/Si adaptive tunnel junction photocathode. <i>Nano Letters</i> , <b>2015</b> , 15, 2721-6	11.5	86
325	Mapping bright and dark modes in gold nanoparticle chains using electron energy loss spectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 3799-808	11.5	86
324	Strained lattice with persistent atomic order in Pt <sub>3</sub> Fe <sub>2</sub> intermetallic core-shell nanocatalysts. <i>ACS Nano</i> , <b>2013</b> , 7, 6103-10	16.7	86
323	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , <b>2018</b> , 9, 4614	17.4	86
322	Elemental mapping at the atomic scale using low accelerating voltages. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 926-934	9.34	83

- 321 Experimental and theoretical study of the electronic structure of Fe, Co, and Ni aluminides with the B2 structure. *Physical Review B*, **1996**, 54, 1682-1691 3.3 83
- 320 Can magneto-plasmonic nanohybrids efficiently combine photothermia with magnetic hyperthermia?. *Nanoscale*, **2015**, 7, 18872-7 7.7 82
- 319 Microscopic Studies on Liquid Crystal Poly(3,3'-dialkylquaterthiophene) Semiconductor. *Macromolecules*, **2004**, 37, 8307-8312 5.5 82
- 318 High-resolution EELS study of the vacancy-doped metal/insulator system, Nd<sub>1-x</sub>TiO<sub>3</sub>, to 0.33.. *Journal of Solid State Chemistry*, **2005**, 178, 1008-1016 3.3 81
- 317 In Situ Liquid Cell TEM Study of Morphological Evolution and Degradation of Pt/Fe Nanocatalysts During Potential Cycling. *Journal of Physical Chemistry C*, **2014**, 118, 22111-22119 3.8 80
- 316 Tunable Syngas Production from CO and H<sub>2</sub>O in an Aqueous Photoelectrochemical Cell. *Angewandte Chemie - International Edition*, **2016**, 55, 14262-14266 16.4 78
- 315 Synthesis of Metal Alloy Nanoparticles in Solution by Laser Irradiation of a Metal Powder Suspension. *Journal of Physical Chemistry B*, **2003**, 107, 6920-6923 3.4 75
- 314 Engineering the carrier dynamics of InGaN nanowire white light-emitting diodes by distributed p-AlGaIn electron blocking layers. *Scientific Reports*, **2015**, 5, 7744 4.9 74
- 313 Controlled Coalescence of AlGaIn Nanowire Arrays: An Architecture for Nearly Dislocation-Free Planar Ultraviolet Photonic Device Applications. *Advanced Materials*, **2016**, 28, 8446-8454 24 70
- 312 Quantification of the EELS near-edge structures to study Mn doping in oxides. *Journal of Microscopy*, **1995**, 180, 211-216 1.9 68
- 311 Synthesis of Single Crystal LiNi<sub>0.88</sub>Co<sub>0.09</sub>Al<sub>0.03</sub>O<sub>2</sub> with a Two-Step Lithiation Method. *Journal of the Electrochemical Society*, **2019**, 166, A1956-A1963 3.9 67
- 310 Intracellular Biodegradation of Ag Nanoparticles, Storage in Ferritin, and Protection by a Au Shell for Enhanced Photothermal Therapy. *ACS Nano*, **2018**, 12, 6523-6535 16.7 67
- 309 Three-Dimensional Quantum Confinement of Charge Carriers in Self-Organized AlGaIn Nanowires: A Viable Route to Electrically Injected Deep Ultraviolet Lasers. *Nano Letters*, **2015**, 15, 7801-7 11.5 67
- 308 Silver Nanorice Structures: Oriented Attachment-Dominated Growth, High Environmental Sensitivity, and Real-Space Visualization of Multipolar Resonances. *Chemistry of Materials*, **2012**, 24, 2339-2346 8.6 64
- 307 Dark-field transmission electron microscopy of cortical bone reveals details of extrafibrillar crystals. *Journal of Structural Biology*, **2014**, 188, 240-8 3.4 63
- 306 Equilibrium and stability of phase-separating Au/Pt nanoparticles. *Acta Materialia*, **2008**, 56, 5972-5983 8.4 62
- 305 Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. *ACS Catalysis*, **2019**, 9, 9350-9358 13.1 61
- 304 AlN/h-BN Heterostructures for Mg Dopant-Free Deep Ultraviolet Photonics. *Nano Letters*, **2017**, 17, 3738-3743 13.7 59

303	The role of aluminum distribution on the local corrosion resistance of the microstructure in a sand-cast AM50 alloy. <i>Corrosion Science</i> , <b>2013</b> , 77, 151-163	6.8	58
302	Quantitative evaluation of radiation damage to polyethylene terephthalate by soft X-rays and high-energy electrons. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1869-76	3.4	57
301	High-resolution observations of an amorphous layer and subsurface damage formed by femtosecond laser irradiation of silicon. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 053104	2.5	57
300	High Efficiency Si Photocathode Protected by Multifunctional GaN Nanostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 6530-6537	11.5	56
299	Intergranular fracture in irradiated Inconel X-750 containing very high concentrations of helium and hydrogen. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 457, 165-172	3.3	55
298	GaP/GaAsP/GaP core-multishell nanowire heterostructures on (111) silicon. <i>Nanotechnology</i> , <b>2007</b> , 18, 445304	3.4	55
297	Structure and chemistry of the Si(111)/AlN interface. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 011910	3.4	54
296	Cross-sectional study of periodic surface structures on gallium phosphide induced by ultrashort laser pulse irradiation. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 221112	3.4	53
295	Molecular beam epitaxy growth of Al-rich AlGaN nanowires for deep ultraviolet optoelectronics. <i>APL Materials</i> , <b>2016</b> , 4, 086115	5.7	53
294	Nano- and Microstructure Engineering: An Effective Method for Creating High Efficiency Magnesium Silicide Based Thermoelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34431-34437	9.5	52
293	Phase formation of CaAl <sub>2</sub> O <sub>4</sub> from CaCO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> powder mixtures. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 747-756	6	51
292	Enhancement of resolution in core-loss and low-loss spectroscopy in a monochromated microscope. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 1091-103	3.1	51
291	Nanocrystalline tungsten carbide (WC) synthesis/characterization and its possible application as a PEM fuel cell catalyst support. <i>Electrochimica Acta</i> , <b>2012</b> , 61, 198-206	6.7	50
290	Stable Hydrogen Storage Cycling in Magnesium Hydride, in the Range of Room Temperature to 300 °C, Achieved Using a New Bimetallic Cr-V Nanoscale Catalyst. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3188-3199	3.8	50
289	Surface-initiated atom transfer radical polymerization of polyhedral oligomeric silsesquioxane (POSS) methacrylate from flat silicon wafer. <i>Polymer</i> , <b>2006</b> , 47, 1119-1123	3.9	49
288	Corrosion of engineering materials in a supercritical water cooled reactor: Characterization of oxide scales on Alloy 800H and stainless steel 316. <i>Corrosion Science</i> , <b>2015</b> , 100, 222-230	6.8	48
287	Highly efficient binary copper-iron catalyst for photoelectrochemical carbon dioxide reduction toward methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1330-1338	11.5	47
286	Three-dimensional investigation of cycling-induced microstructural changes in lithium-ion battery cathodes using focused ion beam/scanning electron microscopy. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 300-308	8.9	46

285	Self-Assembled Functional DNA Superstructures as High-Density and Versatile Recognition Elements for Printed Paper Sensors. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12440-12443	16.4	46
284	Element specific monolayer depth profiling. <i>Advanced Materials</i> , <b>2014</b> , 26, 6554-9	24	45
283	Selective electroreduction of CO <sub>2</sub> to formate on 3D [100] Pb dendrites with nanometer-sized needle-like tips. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20747-20756	13	45
282	Highly Porous and Preferentially Oriented {100} Platinum Nanowires and Thin Films. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4172-4181	15.6	45
281	Strain relief and AlSb buffer layer morphology in GaSb heteroepitaxial films grown on Si as revealed by high-angle annular dark-field scanning transmission electron microscopy. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 082113	3.4	45
280	Scanning transmission electron microscopy investigation of the Si(111)/AlN interface grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 251901	3.4	45
279	Experimental evidence of nanometer-scale confinement of plasmonic eigenmodes responsible for hot spots in random metallic films. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	44
278	Supramolecular Functionalization of Single-Walled Carbon Nanotubes with Conjugated Polyelectrolytes and Their Patterning on Surfaces. <i>Macromolecules</i> , <b>2008</b> , 41, 9869-9874	5.5	44
277	Surface-initiated atom transfer radical polymerization grafting of poly(2,2,2-trifluoroethyl methacrylate) from flat silicon wafer surfaces. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 1252-1262	2.5	43
276	The cathodic behaviour of AlMn precipitates during atmospheric and saline aqueous corrosion of a sand-cast AM50 alloy. <i>Corrosion Science</i> , <b>2014</b> , 83, 299-309	6.8	42
275	Photochemical Carbon Dioxide Reduction on Mg-Doped Ga(In)N Nanowire Arrays under Visible Light Irradiation. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 246-252	20.1	41
274	Nucleation and growth of Si nanocrystals in an amorphous SiO <sub>2</sub> matrix. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	41
273	Unassisted solar water splitting with 9.8% efficiency and over 100 h stability based on Si solar cells and photoelectrodes catalyzed by bifunctional NiMo/Ni. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2200-2209	13	39
272	Tracking the corrosion of magnesium sand cast AM50 alloy in chloride environments. <i>Corrosion Science</i> , <b>2013</b> , 75, 114-122	6.8	39
271	Ti <sub>4</sub> O <sub>7</sub> supported Ru@Pt core-shell catalyst for CO-tolerance in PEM fuel cell hydrogen oxidation reaction. <i>Applied Energy</i> , <b>2013</b> , 103, 507-513	10.7	39
270	Synthesis and Electrophoretic Deposition of Single-Walled Carbon Nanotube Complexes with a Conjugated Polyelectrolyte. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2741-2749	9.6	39
269	Molecular beam epitaxial growth and characterization of Al(Ga)N nanowire deep ultraviolet light emitting diodes and lasers. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 364006	3	38
268	Spatially resolved surface valence gradient and structural transformation of lithium transition metal oxides in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 29064-29075	3.6	38

267	Electron Energy-Loss Spectroscopy of Multipolar Edge and Cavity Modes in Silver Nanosquares. <i>ACS Photonics</i> , <b>2016</b> , 3, 428-433	6.3	38
266	A GaN:Sn nanoarchitecture integrated on a silicon platform for converting CO <sub>2</sub> to HCOOH by photoelectrocatalysis. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2842-2848	35.4	38
265	Asymmetric silver "nanocarrot" structures: solution synthesis and their asymmetric plasmonic resonances. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9616-9	16.4	38
264	A novel CO-tolerant PtRu core-shell structured electrocatalyst with Ru rich in core and Pt rich in shell for hydrogen oxidation reaction and its implication in proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9117-9123	8.9	38
263	Ternary Sn-Ti-O Electrocatalyst Boosts the Stability and Energy Efficiency of CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12860-12867	16.4	37
262	Atomic Resolution Coordination Mapping in Ca <sub>2</sub> FeCoO <sub>5</sub> Brownmillerite by Spatially Resolved Electron Energy-Loss Spectroscopy. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1904-1909	9.6	37
261	Oxidation of Fe Nanoparticles Embedded in Single-Walled Carbon Nanotubes by Exposure to a Bright Flash of White Light. <i>Nano Letters</i> , <b>2002</b> , 2, 1277-1280	11.5	37
260	Atomic scale real-space mapping of holes in YBa <sub>2</sub> Cu <sub>3</sub> O(6+ $\delta$ ) <i>Nature Communications</i> , <b>2014</b> , 5, 4275	17.4	36
259	Formation of the Ternary Complex Hydride Mg <sub>2</sub> FeH <sub>6</sub> from Magnesium Hydride (MgH <sub>2</sub> ) and Iron: An Electron Microscopy and Energy-Loss Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25701-25714	3.8	36
258	Epitaxial thin films of multiferroic Bi <sub>2</sub> FeCrO <sub>6</sub> with B-site cationic order. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 2102-2110	2.5	36
257	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , <b>2020</b> , 16, e2003096	11	36
256	Magneto-Thermal Metrics Can Mirror the Long-Term Intracellular Fate of Magneto-Plasmonic Nanohybrids and Reveal the Remarkable Shielding Effect of Gold. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605997	15.6	35
255	Unraveling the Rapid Performance Decay of Layered High-Energy Cathodes: From Nanoscale Degradation to Drastic Bulk Evolution. <i>ACS Nano</i> , <b>2018</b> , 12, 2708-2718	16.7	35
254	Selective area epitaxy of AlGaN nanowire arrays across nearly the entire compositional range for deep ultraviolet photonics. <i>Optics Express</i> , <b>2017</b> , 25, 30494-30502	3.3	35
253	Imaging, core-loss, and low-loss electron-energy-loss spectroscopy mapping in aberration-corrected STEM. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 416-24	0.5	34
252	Cobalt-Free Nickel-Rich Positive Electrode Materials with a Core-shell Structure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10150-10160	9.6	34
251	Multiple-interface coupling effects in local electron-energy-loss measurements of band gap energies. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	33
250	Electron energy loss spectroscopy of interfacial layer formation in Gd <sub>2</sub> O <sub>3</sub> films deposited directly on Si(001). <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 2921-2928	2.5	33

249	Electroreduction of CO <sub>2</sub> to formate on amine modified Pb electrodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11272-11281	13	32
248	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14313-14320	16.4	32
247	Resonant optical excitations in complementary plasmonic nanostructures. <i>Optics Express</i> , <b>2012</b> , 20, 6968-6973	3.3	32
246	Towards calibration-invariant spectroscopy using deep learning. <i>Scientific Reports</i> , <b>2019</b> , 9, 2126	4.9	31
245	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. <i>ACS Nano</i> , <b>2016</b> , 10, 8552-63	16.7	31
244	Atomic Ordering in InGaN Alloys within Nanowire Heterostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 6413-8	11.5	30
243	Toward 10 meV electron energy-loss spectroscopy resolution for plasmonics. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 767-78	0.5	30
242	High-Efficiency InGaN/GaN Dot-in-a-Wire Red Light-Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 321-323	2.2	30
241	Uncovering the nature of electroactive sites in nano architected dendritic Bi for highly efficient CO <sub>2</sub> electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 274, 119031	21.8	29
240	Strain fields around dislocation arrays in a $\beta$ silicon bicrystal measured by scanning transmission electron microscopy. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 1250-1267	1.6	29
239	Growth mechanisms of GaSb heteroepitaxial films on Si with an AlSb buffer layer. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 113101	2.5	28
238	Magnetocaloric effect in Ni-Mn-Ga thin films under concurrent magnetostructural and Curie transitions. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 013910	2.5	28
237	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. <i>ACS Nano</i> , <b>2017</b> , 11, 11240-11249	16.7	27
236	Visualizing biointerfaces in three dimensions: electron tomography of the bone-hydroxyapatite interface. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 1497-501	4.1	27
235	Iron oxyhydroxide colloid formation by gamma-radiolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7198-206	3.6	27
234	Biaxial ZnO/n-S Nanoribbon Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4755-4757	3.8	27
233	Impact of a Titanium-Based Surface Coating Applied to Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> on Lithium-Ion Cell Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 7052-7064	6.1	26
232	Electrochemical Valorization of Glycerol on Ni-Rich Bimetallic NiPd Nanoparticles: Insight into Product Selectivity Using in Situ Polarization Modulation Infrared-Reflection Absorption Spectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14425-14434	8.3	25



231	Lattice distortions and octahedral rotations in epitaxially strained LaNiO <sub>3</sub> /LaAlO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 221909	3.4	25
230	Atomically resolved EELS mapping of the interfacial structure of epitaxially strained LaNiO <sub>3</sub> /LaAlO <sub>3</sub> superlattices. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	25
229	Artificial Solids by Design: Assembly and Electron Microscopy Study of Nanosheet-Derived Heterostructures. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4892-4900	9.6	25
228	Local Hydrogen Fluxes Correlated to Microstructural Features of a Corroding Sand Cast AM50 Magnesium Alloy. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, C557-C564	3.9	24
227	Synthesis of CuPd alloy thin films by co-electrodeposition. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7397-7403	6.7	24
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