## Gianluigi A Botton

# 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.

56 356 20,923 139 h-index g-index citations papers 6.73 23,981 6.3 370 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
356	Correlating the mechanical strength of positive electrode material particles to their capacity retention. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100714	6.1	3
355	Advances in ultrahigh-energy resolution EELS: phonons, infrared plasmons and strongly coupled modes <i>Microscopy (Oxford, England)</i> , <b>2022</b> , 71, i174-i199	1.3	1
354	Deciphering the Interaction of Single-Phase LaSrFeCrO with CO/CO Environments for Application in Reversible Solid Oxide Cells <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2022</b> ,	9.5	1
353	Mechanism of Action of the Tungsten Dopant in LiNiO 2 Positive Electrode Materials. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103067	21.8	6
352	The effects of bending on plasmonic modes in nanowires and planar structures. <i>Nanophotonics</i> , <b>2022</b> , 11, 305-314	6.3	O
351	High-Voltage Induced Surface and Intragranular Structural Evolution of Ni-Rich Layered Cathode <i>Small</i> , <b>2022</b> , e2200627	11	2
350	Electron ptychography dose reduction using Moirsampling on periodic structures. <i>Ultramicroscopy</i> , <b>2022</b> , 239, 113559	3.1	
349	Crystal lattice image reconstruction from Moir ampling scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2021</b> , 233, 113426	3.1	
348	Morphology alteration of nickel microstructures for glycerol electrooxidation. <i>Journal of Catalysis</i> , <b>2021</b> , 404, 348-361	7.3	O
347	Ionomer content optimization in nickel-iron-based anodes with and without ceria for anion exchange membrane water electrolysis. <i>Journal of Power Sources</i> , <b>2021</b> , 514, 230563	8.9	4
346	Influence of Pd and Au on electrochemical valorization of glycerol over Ni-rich surfaces. <i>Journal of Catalysis</i> , <b>2021</b> , 396, 1-13	7.3	4
345	Revealing the Structure Evolution of Heterogeneous Pd Catalyst in Suzuki Reaction via the Identical Location Transmission Electron Microscopy. <i>ACS Nano</i> , <b>2021</b> , 15, 8621-8637	16.7	4
344	Highly Active Nickel <b>I</b> ron Nanoparticles With and Without Ceria for the Oxygen Evolution Reaction. <i>Electrocatalysis</i> , <b>2021</b> , 12, 605-618	2.7	3
343	Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. <i>ACS Nano</i> , <b>2021</b> ,	16.7	2
342	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. <i>ACS Nano</i> , <b>2021</b> , 15, 10553-10564	16.7	19
341	Comparison Between Moir Sampling Scanning Transmission Electron Microscopy Geometrical Phase Analysis Strain Characterization Method and Dark-Field Electron Holography. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1982-1984	0.5	
340	EELSpecNet: Deep Convolutional Neural Network Solution for Electron Energy Loss Spectroscopy Deconvolution. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1626-1627	0.5	O

#### (2020-2021)

339	Selective area grown AlInGaN nanowire arrays with core-shell structures for photovoltaics on silicon. <i>Nanoscale</i> , <b>2021</b> , 13, 8163-8173	7.7	1
338	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. <i>Nanoscale</i> , <b>2021</b> , 13, 14552-14571	7.7	7
337	Crystal Lattices Reconstruction from MoirlʿAliased Scanning Transmission Electron Microscopy Electron Micrograph. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1986-1988	0.5	
336	Near-Infrared Cathodoluminescence Polarimetry of a Plasmonic Vertical Split Ring Resonator. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 706-708	0.5	
335	A nanoscale investigation on the influence of anodization parameters during plasma electrolytic oxidation of titanium by high-resolution electron energy loss spectroscopy. <i>Applied Surface Science</i> , <b>2021</b> , 570, 151133	6.7	2
334	Electron energy-loss spectroscopy of surface plasmon activity in wrinkled gold structures. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 224703	3.9	2
333	Strong Phonon-Plasmon Coupling Between Nanoscale Antennas. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1498-1500	0.5	
332	Atomic Scale Structure and Chemistry Study of Franckeite - A Natural van-der-Waals Heterostructure - Using Scanning Transmission Electron Microscopy and Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1642-1643	0.5	1
331	Strain-free ultrathin AlN epilayers grown directly on sapphire by high-temperature molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 152102	3.4	6
330	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
329	Resonant Optical Antennas with Atomic-Sized Tips and Tunable Gaps Achieved by Mechanical Actuation and Electrical Control. <i>Nano Letters</i> , <b>2020</b> , 20, 4346-4353	11.5	6
328	Ternary Sn-Ti-O Electrocatalyst Boosts the Stability and Energy Efficiency of CO2 Reduction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 12960-12967	3.6	6
327	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14419-14426	3.6	7
326	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
325	Nanoscale Structural and Emission Properties within <b>R</b> ussian Doll <b>E</b> Type InGaN/AlGaN Quantum Wells. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000481	8.1	1
324	Modification of Nickel Surfaces by Bismuth: Effect on Electrochemical Activity and Selectivity toward Glycerol. <i>ACS Applied Materials &amp; Enpty Interfaces</i> , <b>2020</b> , 12, 15095-15107	9.5	20
323	A Low-Cost Instrument for Dry Particle Fusion Coating of Advanced Electrode Material Particles at the Laboratory Scale. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110509	3.9	10
322	Remarkably Stable Nickel Hydroxide Nanoparticles for Miniaturized Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7294-7305	6.1	4

321	GaN nanowires as a reusable photoredox catalyst for radical coupling of carbonyl under blacklight irradiation. <i>Chemical Science</i> , <b>2020</b> , 11, 7864-7870	9.4	12
320	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
319	The performance evaluation of direct detection electron energy-loss spectroscopy at 200 kV and 80 kV accelerating voltages. <i>Ultramicroscopy</i> , <b>2020</b> , 212, 112942	3.1	6
318	Uncovering the nature of electroactive sites in nano architectured dendritic Bi for highly efficient CO2 electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 274, 119031	21.8	29
317	Dual-Site-Mediated Hydrogenation Catalysis on Pd/NiO: Selective Biomass Transformation and Maintenance of Catalytic Activity at Low Pd Loading. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5483-5492	13.1	19
316	Hierarchical Plasmon Resonances in Fractal Structures. ACS Photonics, 2020, 7, 1246-1254	6.3	5
315	Probing the performance of structurally controlled platinum-cobalt bimetallic catalysts for selective hydrogenation of cinnamaldehyde. <i>Journal of Catalysis</i> , <b>2020</b> , 388, 164-170	7.3	13
314	2D Antimony-Arsenic Alloys. <i>Small</i> , <b>2020</b> , 16, e1906540	11	4
313	Sampling optimization of Moir[geometrical phase analysis for strain characterization in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2020</b> , 209, 112858	3.1	8
312	Pnictogens Allotropy and Phase Transformation during van der Waals Growth. <i>Nano Letters</i> , <b>2020</b> , 20, 8258-8266	11.5	2
311	Amorphous Ni-Based Nanoparticles for Alkaline Oxygen Evolution. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10522-10530	5.6	4
310	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
309	InGaN/Si Double-Junction Photocathode for Unassisted Solar Water Splitting. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3741-3751	20.1	17
308	Selective Electrooxidation of Glycerol to Formic Acid over Carbon Supported Ni1MMx (M = Bi, Pd, and Au) Nanocatalysts and Coelectrolysis of CO2. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8725-8738	6.1	20
307	CoreBhell Nanocuboid Dimers with Nanometric Gaps. Journal of Physical Chemistry C, 2020, 124, 18690-	·1 <b>%8</b> 97	2
306	REktitelbild: Ternary Sn-Ti-O Electrocatalyst Boosts the Stability and Energy Efficiency of CO2 Reduction (Angew. Chem. 31/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13224-13224	3.6	
305	The Performance of Electron Counting Direct Detection in Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 586-587	0.5	2
304	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9350-9358	13.1	61

303	Carving Plasmon Modes in Silver Sierpi∃ki Fractals. ACS Photonics, <b>2019</b> , 6, 2974-2984	6.3	7
302	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	39
301	ReviewMultifunctional Separators: A Promising Approach for Improving the Durability and Performance of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5369-A5377	3.9	15
300	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800827	6.4	7
299	Electrochemical Valorization of Glycerol on Ni-Rich Bimetallic NiPd Nanoparticles: Insight into Product Selectivity Using in Situ Polarization Modulation Infrared-Reflection Absorption Spectroscopy. ACS Sustainable Chemistry and Engineering, 2019, 7, 14425-14434	8.3	25
298	Synthesis of Single Crystal LiNi0.88Co0.09Al0.03O2 with a Two-Step Lithiation Method. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1956-A1963	3.9	67
297	Electrochemical promotion of Bi-metallic Ni9Pd core double-shell nanoparticles for complete methane oxidation. <i>Journal of Catalysis</i> , <b>2019</b> , 374, 127-135	7.3	8
296	Structural origin of the high-performance light-emitting InGaN/AlGaN quantum disks. <i>Nanoscale</i> , <b>2019</b> , 11, 8994-8999	7.7	9
295	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5365-5374	13.1	21
294	Europium-doped ZnO nanosponges © controlling optical properties and photocatalytic activity. Journal of Materials Chemistry C, <b>2019</b> , 7, 3909-3919	7.1	20
293	Towards calibration-invariant spectroscopy using deep learning. Scientific Reports, 2019, 9, 2126	4.9	31
292	Electroreduction of CO2 to formate on amine modified Pb electrodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11272-11281	13	32
291	Surface Plasmon Resonance Mode Behaviour in Sierpinski Fractal Triangles and New Plasmonic Materials. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 636-637	0.5	
290	Large Field of View Strain Characterization in a Scanning Transmission Electron Microscope Using a Designed Coherent Sampler. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 86-87	0.5	
289	Efficient Nitrogen Fixation Catalyzed by Gallium Nitride Nanowire Using Nitrogen and Water. <i>IScience</i> , <b>2019</b> , 17, 208-216	6.1	10
288	Deposition and morphological evolution of nanostructured palladium during potential cycling: a liquid-cell TEM study. <i>Chemical Communications</i> , <b>2019</b> , 55, 9204-9207	5.8	4
287	A GaN:Sn nanoarchitecture integrated on a silicon platform for converting CO2 to HCOOH by photoelectrocatalysis. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2842-2848	35.4	38
286	The in situ Studies on the Anomalous Domain Switching Caused by Trace Amount of Oxygen Vacancies. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1888-1889	0.5	

285	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
284	Analytical Electron Microscopy. Springer Handbooks, 2019, 345-453	1.3	4
283	Preformed Au colloidal nanoparticles immobilised on NiO as highly efficient heterogeneous catalysts for reduction of 4-nitrophenol to 4-aminophenol. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103381	6.8	9
282	Cobalt-Free Nickel-Rich Positive Electrode Materials with a CoreBhell Structure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10150-10160	9.6	34
281	Vertically Aligned Ni Nanowires as a Platform for Kinetically Limited Water-Splitting Electrocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1082-1093	3.8	5
<b>2</b> 80	Liquid Cell Transmission Electron Microscopy Sheds Light on The Mechanism of Palladium Electrodeposition. <i>Langmuir</i> , <b>2019</b> , 35, 862-869	4	17
279	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
278	A dominant electron trap in molecular beam epitaxial InAlN lattice-matched to GaN. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 14LT01	3	1
277	Phosphorus oxide gate dielectric for black phosphorus field effect transistors. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 173101	3.4	14
276	Nanoscale mechanism of the stabilization of nanoporous gold by alloyed platinum. <i>Nanoscale</i> , <b>2018</b> , 10, 4904-4912	7.7	14
275	2D strain mapping using scanning transmission electron microscopy Moirlinterferometry and geometrical phase analysis. <i>Ultramicroscopy</i> , <b>2018</b> , 187, 1-12	3.1	23
274	Effect of water vapour partial pressure on the chromia (Cr2O3)-based scale stability. <i>Canadian Metallurgical Quarterly</i> , <b>2018</b> , 57, 89-98	0.9	4
273	Correlative electron energy loss spectroscopy and cathodoluminescence spectroscopy on three-dimensional plasmonic split ring resonators. <i>Microscopy (Oxford, England)</i> , <b>2018</b> , 67, i40-i51	1.3	4
272	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
271	Understanding the Chemical and Relevant Phase Evolutions of Lithium-Based Electrode Materials Using Atomic-Resolution Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1520-1521	0.5	
270	Silicon effects on the wet oxidation of type 310 stainless steel. <i>Corrosion Science</i> , <b>2018</b> , 143, 376-389	6.8	3
269	Atomic-resolution Imaging and Spectroscopy of Iron Oxide Epitaxial Thin Films. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1614-1615	0.5	
268	Advances in nanoscale characterization of refined nanoporous gold. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 611	- <b>6</b> . <del>1/</del> 8	6

267	Intracellular Biodegradation of Ag Nanoparticles, Storage in Ferritin, and Protection by a Au Shell for Enhanced Photothermal Therapy. <i>ACS Nano</i> , <b>2018</b> , 12, 6523-6535	16.7	67
266	Synthesis of high-oxidation Y-Ba-Cu-O phases in superoxygenated thin films. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	3
265	Advantages of Direct Detection and Electron Counting for High-Energy Resolution and Monochromated Electron Energy Loss Spectroscopy Data Acquisition. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 474-475	0.5	
264	Impact of a Titanium-Based Surface Coating Applied to Li[Ni0.5Mn0.3Co0.2]O2 on Lithium-Ion Cell Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 7052-7064	6.1	26
263	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , <b>2018</b> , 9, 4614	17.4	86
262	High Efficiency Si Photocathode Protected by Multifunctional GaN Nanostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 6530-6537	11.5	56
261	Investigating the Removal of Layered Double Hydroxides in [Ni0.80Co0.15]0.95-xAl0.05+x(OH)2(x = 0, 0.05) Prepared by Coprecipitation. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2781-A2791	3.9	12
<b>2</b> 60	Elucidating the Li-Ion Battery Performance Benefits Enabled by Multifunctional Separators. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1878-1882	6.1	8
259	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
258	Real-space mapping of electronic orbitals. <i>Ultramicroscopy</i> , <b>2017</b> , 177, 26-29	3.1	8
257	The Impact of Electrolyte Additives and Upper Cut-off Voltage on the Formation of a Rocksalt Surface Layer in LiNi0.8Mn0.1Co0.1O2Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A6.	5 <i>5</i> -866	55 <sup>116</sup>
256	Nanoscale analysis of structural and chemical changes in aged hybrid Pt/NbOx/C fuel cell catalysts. Journal of Power Sources, <b>2017</b> , 356, 140-152	8.9	8
255	AlN/h-BN Heterostructures for Mg Dopant-Free Deep Ultraviolet Photonics. <i>Nano Letters</i> , <b>2017</b> , 17, 37	38-3₹4	1359
254	Characterization of Localized Filament Corrosion Products at the Anodic Head on a Model Mg-Zn-Zr Alloy Surface. <i>Corrosion</i> , <b>2017</b> , 73, 518-525	1.8	6
253	Interface Segregation and Nitrogen Measurement in Fe-Mn-N Steel by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 385-395	0.5	7
252	Epitaxially stabilized thin films of FeO (001) grown on YSZ (100). Scientific Reports, <b>2017</b> , 7, 3712	4.9	22
251	Plasmonic Coupling of Multipolar Edge Modes and the Formation of Gap Modes. <i>ACS Photonics</i> , <b>2017</b> , 4, 1558-1565	6.3	22
250	In Liquid Observation and Quantification of Nucleation and Growth of Gold Nanostructures Using in Situ Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 7435-7441	3.8	11

249	Targeting low-cost type-II heterostructures: Synthesis, structure and photoreactivity. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 698, 944-956	5.7	17
248	Bulk Immiscibility at the Edge of the Nanoscale. ACS Nano, 2017, 11, 10984-10991	16.7	6
247	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
246	PtRu Alloy Nanoparticles I. Physicochemical Characterizations of Structures Formed as a Function of the Type of Deposition and Their Evolutions on Annealing. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23104-23119	3.8	7
245	Efficient Graphene Production by Combined Bipolar Electrochemical Intercalation and High-Shear Exfoliation. <i>ACS Omega</i> , <b>2017</b> , 2, 6492-6499	3.9	11
244	Diols Production From Glycerol Over Pt-Based Catalysts: On the Role Played by the Acid Sites of the Support. <i>Catalysis Letters</i> , <b>2017</b> , 147, 2523-2533	2.8	8
243	Selective electroreduction of CO2 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
242	The 3D Nanoscale Evolution of Platinum Niobium Oxide Fuel Cell Catalysts via Identical Location Electron Tomography. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1700051	3.1	7
241	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , <b>2017</b> , 8, 1325	17.4	113
240	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. ACS Nano, 2017, 11, 11240-11249	16.7	27
239	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
238	Comparison of Single Crystal and Polycrystalline LiNi0.5Mn0.3Co0.2O2Positive Electrode Materials for High Voltage Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1534-A1544	3.9	187
237	Investigation of pristine Li1.2Ni0.13Mn0.56Co0.13O2 by advanced TEM <b>2016</b> , 864-865		
236	Quantifying the hole distribution in cuprates: Atomic-resolution near-edge fine-structures of the superconductor Sr3Ca11Cu24O41 <b>2016</b> , 970-971		
235	Can transverse plasmonic fields be revealed by differential phase contrast? <b>2016</b> , 1154-1156		
234	Absorption-induced enhancement of X-ray contrast by soft X-ray emissions <b>2016</b> , 821-822		
233	Understanding the degradation of Pt nanoparticles in a fuel cell electrode via identical location electron tomography <b>2016</b> , 31-32		
232	Multivariate-aided mapping of solute partitioning in a rare-earth magnesium alloy <b>2016</b> , 49-50		

#### (2016-2016)

231	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
230	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
229	Effect of Silicon Carbide Nanoparticles on the Grain Boundary Segregation and Thermoelectric Properties of Bismuth Doped Mg2Si0.7Ge0.3. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 6052-6058	1.9	15
228	Nano- and Microstructure Engineering: An Effective Method for Creating High Efficiency Magnesium Silicide Based Thermoelectrics. <i>ACS Applied Materials &amp; Discrete Materials</i> (2016), 8, 34431-3443	<del>1</del> 9·5	52
227	Temperature-dependent high energy-resolution EELS of ferroelectric and paraelectric BaTiO3 phases. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	13
226	Multivariate-aided mapping of rare-earth partitioning in a wrought magnesium alloy. <i>Scripta Materialia</i> , <b>2016</b> , 124, 174-178	5.6	17
225	The Effect of Interdiffusion on the Properties of Lithium-Rich Core-Shell Cathodes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2841-A2848	3.9	10
224	Real-space mapping of electronic orbitals <b>2016</b> , 839-840		1
223	Correlative Nanoscale Luminescence and Elemental Mapping in InGaN/(Al)GaN Dot-in-a-wire Heterostructures <b>2016</b> , 815-816		
222	High energy-resolution EELS of ferroelectric and paraelectric BaTiO3 phases <b>2016</b> , 935-936		
221	Carrier Localization at Atomic-Scale Compositional Fluctuations in Single AlGaN Nanowires with Nano-Cathodoluminescence <b>2016</b> , 624-625		
221	·	11.5	106
	Nano-Cathodoluminescence <b>2016</b> , 624-625	11.5	
220	Nano-Cathodoluminescence <b>2016</b> , 624-625  Full-Color Single Nanowire Pixels for Projection Displays. <i>Nano Letters</i> , <b>2016</b> , 16, 4608-15  Photochemical Carbon Dioxide Reduction on Mg-Doped Ga(In)N Nanowire Arrays under Visible		
220	Nano-Cathodoluminescence <b>2016</b> , 624-625  Full-Color Single Nanowire Pixels for Projection Displays. <i>Nano Letters</i> , <b>2016</b> , 16, 4608-15  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  CuBe and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation	20.1	41
220 219 218	Nano-Cathodoluminescence 2016, 624-625  Full-Color Single Nanowire Pixels for Projection Displays. <i>Nano Letters</i> , 2016, 16, 4608-15  Photochemical Carbon Dioxide Reduction on Mg-Doped Ga(In)N Nanowire Arrays under Visible Light Irradiation. <i>ACS Energy Letters</i> , 2016, 1, 246-252  CuBe and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation Exchange. <i>ACS Nano</i> , 2016, 10, 2406-14  Biomimetic design of monolithic fuel cell electrodes with hierarchical structures. <i>Nano Energy</i> , 2016	20.1	41
219 218 217	Nano-Cathodoluminescence 2016, 624-625  Full-Color Single Nanowire Pixels for Projection Displays. <i>Nano Letters</i> , 2016, 16, 4608-15  Photochemical Carbon Dioxide Reduction on Mg-Doped Ga(In)N Nanowire Arrays under Visible Light Irradiation. <i>ACS Energy Letters</i> , 2016, 1, 246-252  CuBe and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation Exchange. <i>ACS Nano</i> , 2016, 10, 2406-14  Biomimetic design of monolithic fuel cell electrodes with hierarchical structures. <i>Nano Energy</i> , 2016, 20, 57-67  Real-space localization and quantification of hole distribution in chain-ladder Sr3Ca11Cu24O41	20.1 16.7 17.1	41 20 8

213	Evaluating focused ion beam and ultramicrotome sample preparation for analytical microscopies of the cathode layer of a polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , <b>2016</b> , 312, 23	- <b>35</b> 9	19
212	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
211	Solute Segregation During Ferrite Growth: Solute/Interphase and Substitutional/Interstitial Interactions. <i>Jom</i> , <b>2016</b> , 68, 1329-1334	2.1	18
<b>2</b> 10	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
209	Toroidal dipole plasmon resonance modes in upright split ring resonators <b>2016</b> , 1146-1147		1
208	Some applications of analytical electron microscopy and high-resolution spectroscopy in the study of functional materials <b>2016</b> , 911-912		
207	High resolution STEM and EELS investigation of N-doped carbon allotropes decorated with noble metal atom catalysts <b>2016</b> , 806-807		
206	Atomic-Scale Compositional Fluctuations in Ternary III-Nitride Nanowires <b>2016</b> , 550-551		
205	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , <b>2016</b> , 7, 13638	17.4	1085
204	An In0.5Ga0.5N nanowire photoanode for harvesting deep visible light photons. <i>APL Materials</i> , <b>2016</b> , 4, 076106	5.7	13
203	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
202			
	Coupling of bias-induced crystallographic shear planes with charged domain walls in ferroelectric oxide thin films. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
201		3.6	9
201	oxide thin films. <i>Physical Review B</i> , <b>2016</b> , 94,  Tunable Syngas Production from CO2 and H2O in an Aqueous Photoelectrochemical Cell.		9
	oxide thin films. <i>Physical Review B</i> , <b>2016</b> , 94,  Tunable Syngas Production from CO2 and H2O in an Aqueous Photoelectrochemical Cell. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14474-14478  Tunable Syngas Production from CO and H O in an Aqueous Photoelectrochemical Cell.	3.6	9
200	oxide thin films. <i>Physical Review B</i> , <b>2016</b> , 94,  Tunable Syngas Production from CO2 and H2O in an Aqueous Photoelectrochemical Cell. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14474-14478  Tunable Syngas Production from CO and H O in an Aqueous Photoelectrochemical Cell. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14262-14266  Controlled Coalescence of AlGaN Nanowire Arrays: An Architecture for Nearly Dislocation-Free	3.6	9 78
200 199	oxide thin films. <i>Physical Review B</i> , <b>2016</b> , 94,  Tunable Syngas Production from CO2 and H2O in an Aqueous Photoelectrochemical Cell. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14474-14478  Tunable Syngas Production from CO and H O in an Aqueous Photoelectrochemical Cell. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14262-14266  Controlled Coalescence of AlGaN Nanowire Arrays: An Architecture for Nearly Dislocation-Free Planar Ultraviolet Photonic Device Applications. <i>Advanced Materials</i> , <b>2016</b> , 28, 8446-8454  Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer	3.6 16.4 24	9 78 7°

#### (2015-2015)

195	Enhanced figure of merit in Mg2Si0.877Ge0.1Bi0.023/multi wall carbon nanotube nanocomposites. <i>RSC Advances</i> , <b>2015</b> , 5, 65328-65336	3.7	18
194	Theory, Substantiation, and Properties of Novel Reversible Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11267-11285	3.8	9
193	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
192	Synthesis and structural evolution of Pt nanotubular skeletons: revealing the source of the instability of nanostructured electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12663-12671	13	18
191	Corrosion Product Formation Monitored Using the Feedback Mode of Scanning Electrochemical Microscopy with Carbon Microelectrodes. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, C677-C683	3.9	9
190	Two-dimensional X-ray diffraction and transmission electron microscopy study on the effect of magnetron sputtering atmosphere on GaN/SiC interface and gallium nitride thin film crystal structure. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 115301	2.5	3
189	Can magneto-plasmonic nanohybrids efficiently combine photothermia with magnetic hyperthermia?. <i>Nanoscale</i> , <b>2015</b> , 7, 18872-7	7.7	82
188	Atomic Ordering in InGaN Alloys within Nanowire Heterostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 6413-8	11.5	30
187	High resolution transmission electron microscopy (TEM), energy-dispersive X-ray spectroscopy (EDS) and X-ray diffraction studies of nanocrystalline manganese borohydride (Mn(BH4)2) after mechano-chemical synthesis and thermal dehydrogenation. <i>Acta Materialia</i> , <b>2015</b> , 100, 392-400	8.4	8
186	Interplay of strain and indium incorporation in InGaN/GaN dot-in-a-wire nanostructures by scanning transmission electron microscopy. <i>Nanotechnology</i> , <b>2015</b> , 26, 344002	3.4	19
185	Growth and kinetic Monte Carlo simulation of InAs quantum wires on vicinal substrates. <i>Journal of Crystal Growth</i> , <b>2015</b> , 412, 87-94	1.6	5
184	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
183	Damage behavior and atomic migration in MgAl2O4 under an 80 keV scanning focused probe in a STEM. <i>Micron</i> , <b>2015</b> , 68, 141-145	2.3	6
182	Machine-Learning Aided Evolution Studies of Nano-composite Electrodes and Nano-particle Catalysts for Fuel Cell Applications. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1063-1066	0.5	1
181	Aberration corrected STEM-EELS study of the hole distribution in cuprate superconductors. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 665-666	0.5	
180	Surface Segregation of Fe in Pt-Fe Alloy Nanoparticles: Its Precedence and Effect on the Ordered-Phase Evolution during Thermal Annealing. <i>ChemCatChem</i> , <b>2015</b> , 7, 3655-3664	5.2	20
179	Surface Segregation of Fe in PtEe Alloy Nanoparticles: Its Precedence and Effect on the Ordered-Phase Evolution during Thermal Annealing. <i>ChemCatChem</i> , <b>2015</b> , 7, 3597-3597	5.2	
178	Evidence for an equilibrium epitaxial complexion at the Au-MgAl2O4 interface. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 241601	3.4	7

177	AuPt Alloy on TiO2: A Selective and Durable Catalyst for L-Sorbose Oxidation to 2-Keto-Gulonic Acid. <i>ChemSusChem</i> , <b>2015</b> , 8, 4189-94	8.3	13
176	Thermally Driven Cation Exchange at Solid State between Cu2Se and CdSe Nanocrystals: an In-Situ TEM Study. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 947-948	0.5	
175	In-situ Transmission Electron Microscopy to Probe the Electrochemical Deposition of Nanostructured Materials. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 797-798	0.5	
174	Atomic Resolution Imaging and Spectroscopy of Pt-alloy Electrocatalytic Nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 2247-2248	0.5	
173	Local structure and thermoelectric properties of Mg2Si0.977the Bi0.023 (0.1 ?x? 0.4). <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 249-255	5.7	18
172	Homogenization Study of the Effects of Cycling on the Electronic Conductivity of Commercial Lithium-Ion Battery Cathodes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12199-12208	3.8	10
171	Three-Dimensional Quantum Confinement of Charge Carriers in Self-Organized AlGaN Nanowires: A Viable Route to Electrically Injected Deep Ultraviolet Lasers. <i>Nano Letters</i> , <b>2015</b> , 15, 7801-7	11.5	67
170	Localized Corrosion Behavior of AZ31B Magnesium Alloy with an Electrodeposited Poly(3,4-Ethylenedioxythiophene) Coating. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, C536-C544	1 <sup>3.9</sup>	19
169	Engineering the carrier dynamics of InGaN nanowire white light-emitting diodes by distributed p-AlGaN electron blocking layers. <i>Scientific Reports</i> , <b>2015</b> , 5, 7744	4.9	74
168	PtAuto 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
167	Synthesis and Optical Properties of Linker-Free TiO2/CdSe Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3347-3358	3.8	12
166	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
165	Surface modification and cathodic electrophoretic deposition of ceramic materials and composites using celestine blue dye. <i>RSC Advances</i> , <b>2014</b> , 4, 29652	3.7	15
164	Lattice distortions and octahedral rotations in epitaxially strained LaNiO3/LaAlO3 superlattices. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 221909	3.4	25
163	Element specific monolayer depth profiling. Advanced Materials, 2014, 26, 6554-9	24	45
162	Atomic scale real-space mapping of holes in YBa2Cu3O(6+) Nature Communications, <b>2014</b> , 5, 4275	17.4	36
161	In Situ Liquid Cell TEM Study of Morphological Evolution and Degradation of PtHe Nanocatalysts During Potential Cycling. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22111-22119	3.8	8o
160	Modeling and experimental characterization of stepped and v-shaped {311} defects in silicon.  Journal of Applied Physics, <b>2014</b> , 115, 143514	2.5	6

#### (2013-2014)

159	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
158	Primary Oxide Latent Storage and Spillover Enabling Electrocatalysts with Reversible Oxygen Electrode Properties and the Alterpolar Revertible (PEMFC versus WE) Cell. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8723-8746	3.8	12
157	Analytical electron microscopy of a crack tip extracted from a stressed Alloy 800 sample exposed to an acid sulfate environment. <i>Micron</i> , <b>2014</b> , 61, 62-9	2.3	17
156	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
155	Atomically resolved EELS mapping of the interfacial structure of epitaxially strained LaNiO3/LaAlO3 superlattices. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	25
154	Studying Tomorrow's Materials Today: Insights with Quantitative STEM, EELS. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 78-79	0.5	10
153	Effects of Sample Preparation Technique on Quantitative Analysis of Automotive Fuel Cell Catalyst Layers. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 472-473	0.5	3
152	Response to: on the first application of the Richardson-Lucy algorithm to resolve plasmonic resonances in EELS spectra obtained with a monochromated electron beam. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 995	0.5	
151	A "thickness series": weak signal extraction of ELNES in EELS spectra from surfaces. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 649-57	0.5	4
150	Advances in Electron Energy-Loss Spectroscopy with High Spatial and Energy Resolution. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 2176-2177	0.5	
149	Atomic structure and bonding of the interfacial bilayer between Au nanoparticles and epitaxially regrown MgAl2O4 substrates. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231607	3.4	14
148	In situ controlled modification of the helium density in single helium-filled nanobubbles. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 123508	2.5	21
147	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
146	Enhanced and tunable surface plasmons in two-dimensional Ti3C2 stacks: Electronic structure versus boundary effects. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	90
145	Dark-field transmission electron microscopy of cortical bone reveals details of extrafibrillar crystals. <i>Journal of Structural Biology</i> , <b>2014</b> , 188, 240-8	3.4	63
144	Toward 10 meV electron energy-loss spectroscopy resolution for plasmonics. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 767-78	0.5	30
143	Thermodynamically destabilized hydride formation in "bulk" Mg-AlTi multilayers for hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 16432-6	3.6	12
142	Tilted epitaxy on (211)-oriented substrates. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 132103	3.4	9

141	Oxygen 1s excitation and tetragonal distortion from core-hole effect in BaTiO3. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	13
140	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
139	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
138	Atomic-level 2-dimensional chemical mapping and imaging of individual dopants in a phosphor crystal. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11420-6	3.6	11
137	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
136	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
135	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	589
134	Sub-figstrom experimental validation of molecular dynamics for predictive modeling of extended defect structures in Si. <i>Physical Review Letters</i> , <b>2013</b> , 110, 166102	7.4	12
133	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
132	Strained lattice with persistent atomic order in Pt3Fe2 intermetallic core-shell nanocatalysts. <i>ACS Nano</i> , <b>2013</b> , 7, 6103-10	16.7	86
131	Compositional and Morphological Changes of Ordered PtxFey/C Oxygen Electroreduction Catalysts. <i>ChemCatChem</i> , <b>2013</b> , 5, 1449-1460	5.2	16
130	Ti4O7 supported Ru@Pt coreEhell catalyst for CO-tolerance in PEM fuel cell hydrogen oxidation reaction. <i>Applied Energy</i> , <b>2013</b> , 103, 507-513	10.7	39
129	Structural investigation of interface and defects in epitaxial Bi3.25La0.75Ti3O12 film on SrRuO3/SrTiO3 (111) and (100). <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 044102	2.5	2
128	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
127	Plasmonic response of bent silver nanowires for nanophotonic subwavelength waveguiding. <i>Physical Review Letters</i> , <b>2013</b> , 110, 066801	7.4	115
126	Synthesis of Pd and Nbdoped TiO2 composite supports and their corresponding PtPd alloy catalysts by a two-step procedure for the oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2013</b> , 221, 232-241	8.9	23
125	Direct observation of indium precipitates in silicon following high dose ion implantation. <i>Semiconductor Science and Technology</i> , <b>2013</b> , 28, 125012	1.8	5
124	Atomic-scale Ge diffusion in strained Si revealed by quantitative scanning transmission electron microscopy. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	6

123	Strain fields around dislocation arrays in a 2 silicon bicrystal measured by scanning transmission electron microscopy. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 1250-1267	1.6	29
122	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
121	Bone response to free-form fabricated hydroxyapatite and zirconia scaffolds: a transmission electron microscopy study in the human maxilla. <i>Clinical Implant Dentistry and Related Research</i> , <b>2012</b> , 14, 461-9	3.9	18
120	Mapping defects in a carbon nanotube by momentum transfer dependent electron energy loss spectromicroscopy. <i>Ultramicroscopy</i> , <b>2012</b> , 113, 158-164	3.1	16
119	Metallic and semiconducting single-walled carbon nanotubes: differentiating individual SWCNTs by their carbon 1s spectra. <i>ACS Nano</i> , <b>2012</b> , 6, 10965-72	16.7	17
118	Structure and morphology of Pt3Sc alloy thin film prepared by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2012</b> , 524, 127-132	2.2	6
117	Formation of the Ternary Complex Hydride Mg2FeH6 from Magnesium Hydride (EMgH2) 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
116	Structure, ordering, and surfaces of Pt-Fe alloy catalytic nanoparticles from quantitative electron microscopy and X-ray diffraction. <i>Nanoscale</i> , <b>2012</b> , 4, 7273-9	7.7	12
115	Probing bonding and electronic structure at atomic resolution with spectroscopic imaging. <i>MRS Bulletin</i> , <b>2012</b> , 37, 21-28	3.2	14
114	A vacancy-disordered, oxygen-deficient perovskite with long-range magnetic ordering: local and average structures and magnetic properties of Sr2Fe1.5Cr0.5O5. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 2638-44	4 <sup>5.1</sup>	18
113	Bonding and structure of a reconstructed (001) surface of SrTiO3 from TEM. <i>Nature</i> , <b>2012</b> , 490, 384-7	50.4	91
112	Silver Nanorice Structures: Oriented Attachment-Dominated Growth, High Environmental Sensitivity, and Real-Space Visualization of Multipolar Resonances. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 233	3 <i>9</i> -234	6 <sup>64</sup>
111	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
110	Lattice-registered growth of GaSb on Si (211) with molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 093103	2.5	6
109	The role of vacancies and defects in Na0.44MnO2 nanowire catalysts for lithiumBxygen batteries. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9558	35.4	152
108	Atomic-resolution study of polarity reversal in GaSb grown on Si by scanning transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 093101	2.5	13
107	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
106	Direct observation of anti-phase boundaries in heteroepitaxy of GaSb thin films grown on Si(001) by transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 074306	2.5	12

105	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
104	Atomic Resolution Coordination Mapping in Ca2FeCoO5 Brownmillerite by Spatially Resolved Electron Energy-Loss Spectroscopy. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1904-1909	9.6	37
103	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
102	Synthesis of hierarchical structured porous MoS2/SiO2 microspheres by ultrasonic spray pyrolysis. <i>Canadian Journal of Chemical Engineering</i> , <b>2012</b> , 90, 330-335	2.3	14
101	Resonant optical excitations in complementary plasmonic nanostructures. <i>Optics Express</i> , <b>2012</b> , 20, 696	8373	32
100	Structure and chemistry of the Si(111)/AlN interface. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 011910	3.4	54
99	Evidence of Eu2+ 4f electrons in the valence band spectra of EuTiO3 and EuZrO3. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 083719	2.5	22
98	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
97	Ultrastructural characterisation of the hydroxyapatite-coated pedicle screw and human bone interface. <i>International Journal of Nano and Biomaterials</i> , <b>2012</b> , 4, 1	0.2	1
96	Energy Loss Near-Edge Structures <b>2011</b> , 207-245		7
96 95	Energy Loss Near-Edge Structures <b>2011</b> , 207-245  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	7 28
	Magnetocaloric effect in Ni-Mn-Ga thin films under concurrent magnetostructural and Curie	2.5	_
95	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  Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron		28
95 94	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  Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron probe. <i>Nano Letters</i> , <b>2011</b> , 11, 1499-504  The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin	11.5	28
<ul><li>95</li><li>94</li><li>93</li></ul>	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  Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron probe. <i>Nano Letters</i> , <b>2011</b> , 11, 1499-504  The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 124316  p-Type modulation doped InGaN/GaN dot-in-a-wire white-light-emitting diodes monolithically	11.5 2.5	28 206 19
<ul><li>95</li><li>94</li><li>93</li><li>92</li></ul>	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  Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron probe. <i>Nano Letters</i> , <b>2011</b> , 11, 1499-504  The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 124316  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  A novel CO-tolerant PtRu coreBhell 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.	11.5 2.5 11.5	28 206 19 218
<ul><li>95</li><li>94</li><li>93</li><li>92</li><li>91</li></ul>	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  Multipolar plasmonic resonances in silver nanowire antennas imaged with a subnanometer electron probe. <i>Nano Letters</i> , <b>2011</b> , 11, 1499-504  The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 124316  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  A novel CO-tolerant PtRu coreBhell 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  STEM HAADF Tomography of Molybdenum Disulfide with Mesoporous Structure. <i>ChemCatChem</i> ,	11.5 2.5 11.5 8.9	28 206 19 218 38

### (2010-2011)

87	Iron oxyhydroxide colloid formation by gamma-radiolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7198-206	3.6	27	
86	Broken Band Alignment in EuS-CdS Nanoheterostructures. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 181-187	9.6	23	
85	Effect of layer separation, InAs thickness, and rapid thermal annealing on the optical emission from a multi-layer quantum wire structure. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 124311	2.5	3	
84	Synthesis of Cu <b>B</b> d alloy thin films by co-electrodeposition. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7397-7403	6.7	24	
83	Three-dimensional atomic structure of metastable nanoclusters in doped semiconductors. <i>Physical Review Letters</i> , <b>2011</b> , 107, 186104	7.4	23	
82	Imaging high-energy electrons propagating in a crystal. <i>Physical Review Letters</i> , <b>2011</b> , 106, 160802	7.4	10	
81	Coexistence of A- and B-Site Vacancy Compensation in La-Doped Sr1\(\mathbb{B}\)axTiO3. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2903-2908	3.8	13	
80	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	
79	Self-activated reversibility in the magnetically induced reorientation of martensitic variants in ferromagnetic Ni-Mn-Ga films. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	18	
78	Microstructure and ferroic properties of epitaxial [Fe2O3BiFeO3]Bi3.25La0.75Ti3O12 composite bilayers. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 114111	2.5	4	
77	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	
76	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	
75	Thermoelectric properties of A0.05Mo3Sb5.4Te1.6 (A=Mn, Fe, Co, Ni). <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, 314-319	5.7	12	
74	InAs quantum wire induced composition modulation in an In0.53Ga0.37Al0.10As barrier layer grown on an InP substrate. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 034321	2.5	4	
73	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	
72	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	
71	(100) MgAl2O4 as a lattice-matched substrate for the epitaxial thin film deposition of the relaxor ferroelectric PMN-PT. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 98, 187-194	2.6	8	
70	Cross-sectional study of femtosecond laser bulk modification of crystalline Equartz. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 98, 849-853	2.6	8	

69	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
68	Elemental mapping at the atomic scale using low accelerating voltages. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 92	6- <u>9</u> .34	83
67	Seeing structures and measuring properties with transmission electron microscopy images: A simple combination to study size effects in nanoparticle systems. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 263	1 <b>7</b> 6 <sup>4</sup>	18
66	Locating La atoms in epitaxial Bi3.25La0.75Ti3O12 films through atomic resolution electron energy loss spectroscopy mapping. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 192902	3.4	14
65	Ablation and structural changes induced in InP surfaces by single 10 fs laser pulses in air. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 074907	2.5	11
64	Preparation of Ni-g-polymer coreEhell nanoparticles by surface-initiated atom transfer radical polymerization. <i>Polymer</i> , <b>2009</b> , 50, 4293-4298	3.9	21
63	Piezoresponse force microscopy and magnetic force microscopy characterization of EFe2O3BiFeO3 nanocomposite/Bi3.25La0.75Ti3O12 multiferroic bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 1799-1802	2.8	9
62	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
61	Effects of bond character on the electronic structure of brownmillerite-phase oxides, Ca2B?xFe2⊠O5 (B? = Al, Ga): an X-ray absorption and electron energy loss spectroscopic study. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 9213		22
60	Biaxial ZnOInS Nanoribbon Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4755-4757	3.8	27
59	Quantitative compositional analysis and strain study of InAs quantum wires with InGaAlAs barrier layers. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 094313	2.5	6
58	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
57	Structural and multiferroic properties of epitaxial Fe2O3BiFeO3/Bi3.25La0.75Ti3O12composite bi-layers. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 112002	3	17
56	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
55	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
54	Structural and transport properties of epitaxial niobium-doped BaTiO3 films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 192114	3.4	21
53	The Canadian Centre for Electron Microscopy: a national facility for ultrahigh resolution electron microscopy. <i>International Journal of Nanotechnology</i> , <b>2008</b> , 5, 1082	1.5	2
52	Investigation of the electronic structure of the cubic spinel Cu1.2Mn1.8O4 using electron energy loss spectroscopy. <i>Solid State Ionics</i> , <b>2008</b> , 179, 718-724	3.3	8

#### (2005-2008)

51	Phase formation of CaAl2O4 from CaCO3Al2O3 powder mixtures. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 747-756	6	51
50	Equilibrium and stability of phase-separating Au <b>P</b> t nanoparticles. <i>Acta Materialia</i> , <b>2008</b> , 56, 5972-5983	8.4	62
49	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
48	GaP/GaAsP/GaP corefhultishell nanowire heterostructures on (111) silicon. <i>Nanotechnology</i> , <b>2007</b> , 18, 445304	3.4	55
47	Epitaxial thin films of multiferroic Bi2FeCrO6 with B-site cationic order. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 2102-2110	2.5	36
46	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
45	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
44	Electron inelastic scattering and anisotropy: The two-dimensional point of view. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 1082-90	3.1	8
43	Probing the electronic structure of complex crystals with electron energy loss spectroscopy: a study ofnatisites. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 3629-3637	1.8	3
42	Nucleation and growth of Si nanocrystals in an amorphous SiO2 matrix. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	41
41	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
40	Single atomic layer detection of Ca and defect characterization of Bi-2212 with EELS in HA-ADF STEM. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 1076-81	3.1	9
39	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
38	Analytical electron microscopy studies of lithium aluminum hydrides with Ti- and V-based additives. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 4350-6	3.4	18
37	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
36	High-resolution EELS study of the vacancy-doped metal/insulator system, Nd1⊠TiO3, to 0.33 Journal of Solid State Chemistry, <b>2005</b> , 178, 1008-1016	3.3	81
35	Annealing Effects on the Chemical Configuration of Uncapped and (Poly-Si)-Capped HfO[sub x]N[sub y] Films Deposited on Si(001). <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, F101	3.9	5
34	Transmission Electron Microscopy Studies of 5-cycled Na Alanate with Ti Based Additive. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 884, 1		

33	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
32	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
31	Microscopic Studies on Liquid Crystal Poly(3,3III dialkylquaterthiophene) Semiconductor. <i>Macromolecules</i> , <b>2004</b> , 37, 8307-8312	5.5	82
30	High-Resolution EELS and ab initio Study of the Oxygen K Edges in Bulk Perovskites. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 852-853	0.5	2
29	ELNES and EDS Mapping in HfOxNy Thin Films and AlN/TiN Superlattices. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 308-309	0.5	
28	Materials Science Applications Of A Monochromated TEM. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 112-1	<b>1</b> 8.5	2
27	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
26	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
25	Synthesis of Metal Alloy Nanoparticles in Solution by Laser Irradiation of a Metal Powder Suspension. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 6920-6923	3.4	75
24	Characterization of the Inhibition Layer on Galvanized Interstitial Free Steels. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 358-359	0.5	1
23	Contributions of Microscopy to Advanced Industrial Materials and Processing. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 188-189	0.5	
22	Electron energy loss spectroscopy of interfacial layer formation in Gd2O3 films deposited directly on Si(001). <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 2921-2928	2.5	33
21	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
20	Characterization of Phase Transformation by Fe-SEM and Fe-TEM Analysis. <i>Microscopy and Microanalysis</i> , <b>2001</b> , 7, 490-491	0.5	
19	The Effect of Local Symmetry on Atomic Resolution EELS Near-Edge Structures: Predictions for Grain Boundaries In NiAl. <i>Microscopy and Microanalysis</i> , <b>2000</b> , 6, 186-187	0.5	
18	Using EELS fine structures: understanding the chemical bond and obtaining spectroscopic images. <i>Biology of the Cell</i> , <b>1999</b> , 91, 272-272	3.5	
17	Electron energy loss spectroscopy studies of the amorphous to crystalline transition in FeF3. Journal of Applied Physics, <b>1999</b> , 86, 2499-2504	2.5	15
16	Eels Near Edge Structures <b>1999</b> , 265-300		1

#### LIST OF PUBLICATIONS

15	Electronic Structure and Elastic Properties of Strongly Correlated Metal Oxides from First Principles: LSDA + U, SIC-LSDA and EELS Study of UO2 and NiO. <i>Physica Status Solidi A</i> , <b>1998</b> , 166, 429-443	179
14	Electronic structure of possible 3d 'heavy-fermion' compound. <i>Journal of Physics Condensed Matter</i> , 1.8	102
13	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	8200
12	Electronic Structure and Elastic Properties of Strongly Correlated Metal Oxides from First Principles: LSDA + U, SIC-LSDA and EELS Study of UO2 and NiO <b>1998</b> , 166, 429	7
11	Electronic Structure and Elastic Properties of Strongly Correlated Metal Oxides from First Principles: LSDA + U, SIC-LSDA and EELS Study of UO2 and NiO <b>1998</b> , 166, 429	8
10	Local Electronic Structure of Defects in GaN From Spatially Resolved Electron Energy-Loss Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 482, 784	3
9	Plasmon coupling and finite size effects in metallic multilayers. <i>Journal of Microscopy</i> , <b>1997</b> , 187, 184-19 <b>2</b> .9	6
8	Electron Energy Loss Spectroscopy as a Tool to Probe the Electronic Structure in Intermetallic Alloys <b>1997</b> , 175-180	4
7	Experimental and theoretical study of the electronic structure of Fe, Co, and Ni aluminides with the B2 structure. <i>Physical Review B</i> , <b>1996</b> , 54, 1682-1691	83
6	Quantification of the EELS near-edge structures to study Mn doping in oxides. <i>Journal of Microscopy</i> , <b>1995</b> , 180, 211-216	68
5	Volume fraction measurement of dispersoids in a thin foil by parallel energy-loss spectroscopy: development and assessment of the technique. <i>Journal of Microscopy</i> , <b>1995</b> , 180, 217-229	14
4	Changes in the iron white-line ratio in the electron energy-loss spectrum of iron-copper multilayers.  Journal of Microscopy, <b>1995</b> , 180, 288-293	12
3	Electron Beam Induced Crystallisation in Iron (III) Fluoride. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 398, 195	1
2	Eels Studies of B2-Type Transition Metal Aluminides: Experiment and Theory. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 408, 567	
1	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction	1