Herve Martinez

List of Publications by Citations

152 papers	4,645 citations	37 h-index	63 g-index
157 ext. papers	5,223 ext. citations	5.7 avg, IF	5.37 L-index

#	Paper	IF	Citations
152	Electron Transfer Mechanisms upon Lithium Deintercalation from LiCoO2 to CoO2 Investigated by XPS. *Chemistry of Materials*, **2008**, 20, 583-590	9.6	304
151	Surface film formation on a graphite electrode in Li-ion batteries: AFM and XPS study. *Surface and Interface Analysis*, **2005**, 37, 773-781	1.5	188
150	Surface film formation on electrodes in a LiCoO2/graphite cell: A step by step XPS study. *Journal of Power Sources*, **2007**, 174, 462-468	8.9	171
149	Influence of the lithium salt nature over the surface film formation on a graphite electrode in Li-ion batteries: An XPS study. *Applied Surface Science*, **2007**, 253, 4895-4905	6.7	167
148	Comprehensive X-ray Photoelectron Spectroscopy Study of the Conversion Reaction Mechanism of CuO in Lithiated Thin Film Electrodes. *Journal of Physical Chemistry C*, **2013**, 117, 4421-4430	3.8	161
147	InP/ZnS nanocrystals: coupling NMR and XPS for fine surface and interface description. *Journal of the American Chemical Society*, **2012**, 134, 19701-8	16.4	154
146	XPS valence characterization of lithium salts as a tool to study electrode/electrolyte interfaces of Li-ion batteries. *Journal of Physical Chemistry B*, **2006**, 110, 12986-92	3.4	146
145	The Solid Electrolyte Interphase a key parameter of the high performance of Sb in sodium-ion batteries: Comparative X-ray Photoelectron Spectroscopy study of Sb/Na-ion and Sb/Li-ion batteries. *Journal of Power Sources*, **2015**, 273, 14-24	8.9	131
144	High-Performing Monometallic Cobalt Layered Double Hydroxide Supercapacitor with Defined Local Structure. *Advanced Functional Materials*, **2014**, 24, 4831-4842	15.6	123
143	Investigation of the local structure of LiPON thin films to better understand the role of nitrogen on their performance. *Solid State Ionics*, **2011**, 186, 29-36	3.3	114
142	Surface Properties of LiCoO2 Investigated by XPS Analyses and Theoretical Calculations. *Journal of Physical Chemistry C*, **2009**, 113, 5843-5852	3.8	111
141	Lithium secondary batteries working at very high temperature: Capacity fade and understanding of aging mechanisms. *Journal of Power Sources*, **2013**, 236, 265-275	8.9	86
140	Effect of Sn-doping on the electrochemical behaviour of TiO2 nanotubes as potential negative electrode materials for 3D Li-ion micro batteries. *Journal of Power Sources*, **2013**, 224, 269-277	8.9	77
139	XPS investigation of surface reactivity of electrode materials: effect of the transition metal. *ACS Applied Materials & Interfaces*, **2015**, 7, 6629-36	9.5	76
138	Diblock and Random Donor/Acceptor Double Cable Polythiophene Copolymers via the GRIM Method. *Macromolecules*, **2008**, 41, 9736-9743	5.5	76
137	Intercalation compounds of Mg Al layered double hydroxides with dichlophenac: different methods of preparation and physico-chemical characterization. *Applied Clay Science*, **2004**, 27, 95-106	5.2	75
136	Evolution of the Si electrode/electrolyte interface in lithium batteries characterized by XPS and AFM techniques: The influence of vinylene carbonate additive. *Solid State Ionics*, **2012**, 215, 36-44	3.3	71

135	Possible Explanation for the Efficiency of Al-Based Coatings on LiCoO2: Surface Properties of LiCo1−xAlxO2 Solid Solution. *Chemistry of Materials*, **2009**, 21, 5607-5616	9.6	71
134	Acid–base properties of Mg–Ni–Al mixed oxides using LDH as precursors. *Thermochimica Acta*, **2001**, 379, 85-93	2.9	65
133	Impact of the salts and solvents on the SEI formation in Sb/Na batteries: An XPS analysis. *Electrochimica Acta*, **2016**, 207, 284-292	6.7	65
132	Effect of the nanoparticle synthesis method on dendronized iron oxides as MRI contrast agents. *Dalton Transactions*, **2013**, 42, 2146-57	4.3	64
131	Intercalation and grafting of benzene derivatives into zinc-aluminum and copper-chromium layered double hydroxide hosts: an XPS monitoring study. *Physical Chemistry Chemical Physics*, **2011**, 13, 17564-78	3.6	63
130	XPS study of electrode/electrolyte interfaces of Cu6Sn5 electrodes in Li-ion batteries. *Journal of Power Sources*, **2007**, 174, 1086-1090	8.9	63
129	Lithium-Ion Batteries Working at 85°C: Aging Phenomena and Electrode/Electrolyte Interfaces Studied by XPS. *Journal of the Electrochemical Society*, **2012**, 159, A1739-A1746	3.9	59
128	Investigation on the part played by the solid electrolyte interphase on the electrochemical performances of the silicon electrode for lithium-ion batteries. *Journal of Power Sources*, **2012**, 206, 245-252	8.9	58
127	Direct observation of important morphology and composition changes at the surface of the CuO conversion material in lithium batteries. *Journal of Power Sources*, **2014**, 248, 861-873	8.9	53
126	Paving the Way for K-Ion Batteries: Role of Electrolyte Reactivity through the Example of Sb-Based Electrodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 34116-34122	9.5	52
125	Cu-doping of calcium phosphate bioceramics: From mechanism to the control of cytotoxicity. *Acta Biomaterialia*, **2018**, 65, 462-474	10.8	50
124	Study of the Electrode/Electrolyte Interface on Cycling of a Conversion Type Electrode Material in Li Batteries.. *Journal of Physical Chemistry C*, **2013**, 117, 19302-19313	3.8	49
123	XPS investigations achieved on the first cycle of V2O5 thin films used in lithium microbatteries. *Journal of Electron Spectroscopy and Related Phenomena*, **2006**, 150, 1-10	1.7	48
122	Studies of 1T TiS2 by STM, AFM and XPS: the mechanism of hydrolysis in air. *Applied Surface Science*, **1996**, 93, 231-235	6.7	48
121	Characterization of all-solid-state Li/LiPONB/TiOS microbatteries produced at the pilot scale. *Journal of Power Sources*, **2011**, 196, 10289-10296	8.9	45
120	Heterogeneous sulfoxidation of thioethers by hydrogen peroxide over layered double hydroxides as catalysts. *Catalysis Today*, **2001**, 66, 529-534	5.3	44
119	Ageing of atactic and isotactic polystyrene thin films treated by oxygen DC pulsed plasma. *Surface and Coatings Technology*, **2005**, 200, 2310-2316	4.4	43
118	XPS investigations of TiOySz amorphous thin films used as positive electrode in lithium microbatteries. *Solid State Ionics*, **2005**, 176, 1529-1537	3.3	41

117	Study of a nanocomposite based on a conducting polymer: polyaniline. *Langmuir*, **2005**, 21, 1575-83	4	40
116	On the catalytic properties of mixed oxides obtained from the Cu-Mg-Al LDH precursors in the process of hydrogenation of the cinnamaldehyde. *Applied Catalysis A: General*, **2004**, 262, 43-51	5.1	37
115	Influence of the cation nature of high sulfur content oxysulfide thin films MO S (M=W, Ti) studied by XPS. *Applied Surface Science*, **2004**, 236, 377-386	6.7	36
114	Electronic structure of intercalated metal disulfides (and) studied by XPS and theoretical calculations. *Journal of Alloys and Compounds*, **1996**, 245, 30-39	5.7	36
113	Study of the effects of surface modification by thermal shock method on photocatalytic activity of TiO2 P25. *Applied Catalysis B: Environmental*, **2015**, 165, 260-268	21.8	34
112	Thorough study of the local structure of LiPON thin films to better understand the influence of a solder-reflow type thermal treatment on their performances. *Solid State Ionics*, **2012**, 206, 72-77	3.3	34
111	Alternatively linking fullerene and conjugated polymers. *Journal of Polymer Science Part A*, **2009**, 47, 2304-2317	2.5	33
110	Highly conformal electrodeposition of copolymer electrolytes into titania nanotubes for 3D Li-ion batteries. *Nanoscale Research Letters*, **2012**, 7, 349	5	31
109	Thorough XPS analyses on overlithiated manganese spinel cycled around the 3V plateau. *Applied Surface Science*, **2017**, 411, 449-456	6.7	30
108	Temperature effects on Li4Ti5O12 electrode/electrolyte interfaces at the first cycle: A X-ray Photoelectron Spectroscopy and Scanning Auger Microscopy study. *Journal of Power Sources*, **2016**, 318, 291-301	8.9	30
107	Experimental (X-Ray Photoelectron Spectroscopy) and theoretical studies of benzene based organics intercalated into layered double hydroxide. *Solid State Sciences*, **2011**, 13, 1676-1686	3.4	29
106	Surface film morphology (AFM) and chemical features (XPS) of cycled V2O5 thin films in lithium microbatteries. *Journal of Power Sources*, **2008**, 180, 836-844	8.9	27
105	Surface fluorination of single-phase TiO2 by thermal shock method for enhanced UV and visible light induced photocatalytic activity. *Applied Catalysis B: Environmental*, **2014**, 144, 1-11	21.8	26
104	First principles calculations of solid□olid interfaces: an application to conversion materials for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 22063		26
103	Effect of total gas and oxygen partial pressure during deposition on the properties of sputtered V2O5 thin films. *Solid State Ionics*, **2005**, 176, 1627-1634	3.3	26
102	Air- and water-resistant noble metal coated ferromagnetic cobalt nanorods. *ACS Nano*, **2015**, 9, 2792-804	6.7	25
101	Silica coated iron nanoparticles: synthesis, interface control, magnetic and hyperthermia properties.. *RSC Advances*, **2018**, 8, 32146-32156	3.7	25
100	Percolation network of organo-modified layered double hydroxide platelets into polystyrene showing enhanced rheological and dielectric behavior. *Journal of Materials Chemistry*, **2010**, 20, 9484		24

99	New Investigations on the Surface Reactivity of Layered Lithium Oxides. *Journal of Physical Chemistry C*, **2012**, 116, 20332-20341	3.8	23
98	Functionalization strategies and dendronization of iron oxide nanoparticles. *Nanotechnology Reviews*, **2015**, 4,	6.3	22
97	New insights into micro/nanoscale combined probes (nanoAuger, XPS) to characterize Ag/Au@SiO2 core-shell assemblies. *Nanoscale*, **2014**, 6, 11130-40	7.7	22
96	New insights into the characterization of the electrode/electrolyte interfaces within LiMn2O4/Li4Ti5O12 cells, by X-ray photoelectron spectroscopy, scanning Auger microscopy and time-of-flight secondary ion mass spectrometry. *Journal of Materials Chemistry A*, **2017**, 5, 15315-15325	13	22
95	Effect of silver co-sputtering on V2O5 thin films for lithium microbatteries. *Thin Solid Films*, **2008**, 516, 7271-7281	2.2	22
94	Lithium-rich layered titanium sulfides: Cobalt- and Nickel-free high capacity cathode materials for lithium-ion batteries. *Energy Storage Materials*, **2020**, 26, 213-222	19.4	22
93	The electronic structure of the CuRh1MgxO2 thermoelectric materials: An X-ray photoelectron spectroscopy study. *Journal of Solid State Chemistry*, **2011**, 184, 2387-2392	3.3	21
92	The effect of glow discharge sputtering on the analysis of metal oxide films. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2009**, 64, 155-166	3.1	20
91	Design and Cellular Fate of Bioinspired Au-Ag Nanoshells@Hybrid Silica Nanoparticles. *Langmuir*, **2016**, 32, 10073-10082	4	19
90	Analysis of microscopic modifications and macroscopic surface properties of polystyrene thin films treated under d.c. pulsed discharge conditions. *Surface and Interface Analysis*, **2005**, 37, 544-554	1.5	19
89	Influence of Vinylene Carbonate Additive on the Li4Ti5O12Electrode/Electrolyte Interface for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2017**, 164, A1314-A1320	3.9	18
88	Characterization of rf sputtered TiOySz thin films. *Thin Solid Films*, **2005**, 484, 113-123	2.2	18
87	Hexakis [60]Fullerene Adduct-Mediated Covalent Assembly of Ruthenium Nanoparticles and Their Catalytic Properties. *Chemistry - A European Journal*, **2017**, 23, 13379-13386	4.8	17
86	Study of surface fluorination of photocatalytic TiO2 by thermal shock method. *Journal of Solid State Chemistry*, **2012**, 187, 300-308	3.3	17
85	Design of AgAu nanoshell core/mesoporous oriented silica shell nanoparticles through a sol gel surfactant templating method. *Microporous and Mesoporous Materials*, **2013**, 171, 72-77	5.3	17
84	An X-ray photoelectron spectroscopy study of the electrochemical behaviour of iron molybdate thin films in lithium and sodium cells. *Journal of Power Sources*, **2017**, 342, 796-807	8.9	16
83	Electrochemical fabrication and properties of highly ordered Fe-doped TiO2 nanotubes. *ChemPhysChem*, **2012**, 13, 3707-13	3.2	16
82	A new route for local probing of inner interactions within a layered double hydroxide/benzene derivative hybrid material. *Physical Chemistry Chemical Physics*, **2009**, 11, 3554-65	3.6	16

81	XPS valence band spectra and theoretical calculations for investigations on thiogermanate and thiosilicate glasses. *Chemical Physics*, **2006**, 323, 606-616	2.3	16
80	Probing the in-depth distribution of organic/inorganic molecular species within the SEI of LTO/NMC and LTO/LMO batteries: A complementary ToF-SIMS and XPS study. *Applied Surface Science*, **2020**, 501, 144266	6.7	16
79	Surface film formation on TiSnSb electrodes: Impact of electrolyte additives. *Journal of Power Sources*, **2014**, 268, 645-657	8.9	15
78	4-Benzoylbenzoate intercalated in layered double hydroxides: a new catalyst for photo-oxidation of sulfides in solution and in the gas phase. *Tetrahedron Letters*, **2004**, 45, 4047-4050	2	15
77	Experimental (XPS/STM) and theoretical (FLAPW) studies of model systems M1/4TiS2 (M=Fe, Co, Ni): influence of the inserted metal. *Journal of Electron Spectroscopy and Related Phenomena*, **2002**, 125, 181-196	1.7	15
76	Acid-Base properties of MgCuAl mixed oxides. *Journal of Thermal Analysis and Calorimetry*, **2003**, 72, 191-198	4.1	15
75	Effect of the Functionalization Process on the Colloidal, Magnetic Resonance Imaging, and Bioelimination Properties of Mono- or Bisphosphonate-Anchored Dendronized Iron Oxide Nanoparticles. *ChemPlusChem*, **2017**, 82, 647-659	2.8	14
74	Interpretation of scanning tunneling microscopy and atomic force microscopy images of 1T-TiS2. *Surface Science*, **1998**, 400, 247-257	1.8	14
73	Thermoresponsive gold nanoshell@mesoporous silica nano-assemblies: an XPS/NMR survey. *Physical Chemistry Chemical Physics*, **2015**, 17, 28719-28	3.6	13
72	Lithium borophosphate thin film electrolyte as an alternative to LiPON for solder-reflow processed lithium-ion microbatteries. *Solid State Ionics*, **2013**, 249-250, 49-55	3.3	13
71	Vanadium pentoxide thin films used as positive electrode in lithium microbatteries: An XPS study during cycling. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 1320-1324	3.9	13
70	Influence of the metal nature (Ni, Cu, Mg) on the surface acidBase properties of mixed oxides elaborated from LDH. *Surface and Interface Analysis*, **2006**, 38, 234-237	1.5	13
69	Nanoscale Chemical Characterization of Solid-State Microbattery Stacks by Means of Auger Spectroscopy and Ion-Milling Cross Section Preparation. *ACS Applied Materials & Interfaces*, **2017**, 9, 33238-33249	9.5	12
68	Enhanced electrochemical performance of Lithium-ion batteries by conformal coating of polymer electrolyte. *Nanoscale Research Letters*, **2014**, 9, 544	5	12
67	An anionic photo-sensitizer intercalated in a layered double hydroxide: Preparation, characterization and photo-oxidation efficiency. *Microporous and Mesoporous Materials*, **2005**, 84, 343-352	5.3	12
66	Thermal behaviors and grafting process of LDH/benzene derivative hybrid systems. *Thermochimica Acta*, **2012**, 538, 1-8	2.9	11
65	In-depth profile analysis of oxide films by radiofrequency glow discharge optical emission spectrometry (rf-GD-OES): possibilities of depth-resolved solid-state speciation. *Journal of Analytical Atomic Spectrometry*, **2008**, 23, 1378	3.7	11
64	X-ray photoelectron spectroscopy and scanning tunneling microscopy investigations of the solid solutions TixTa1⊠S2 (0?x?1). *Surface Science*, **2004**, 563, 83-98	1.8	11

63	A tentative theory for conjugated rod-coil multi-block copolymer assembly and the initial characterisation by atomic force microscopy and small angle neutron scattering of poly(polymethylphenylsilane-block-polyisoprene). *Synthetic Metals*, **2003**, 139, 463-469	3.6	11
62	Influence of the Positive Electrode on Li4Ti5O12(LTO) Electrode/Electrolyte Interfaces in Li-Ion Batteries. *Journal of the Electrochemical Society*, **2018**, 165, A2925-A2934	3.9	11
61	Electrochemical Mechanisms during Lithium Insertion into TiO[sub 0.6]S[sub 2.8] Thin Film Positive Electrode in Lithium Microbatteries. *Journal of the Electrochemical Society*, **2005**, 152, A141	3.9	10
60	Self-supported carbon nanofibers as negative electrodes for K-ion batteries: Performance and mechanism. *Electrochimica Acta*, **2020**, 362, 137125	6.7	10
59	Experimental Measurements of Carbon Dioxide Solubility in NaCl–KCl Solutions at High Temperatures and Pressures up to 20 MPa. *Journal of Chemical & Engineering Data*, **2019**, 64, 2497-2503	2.8	9
58	Lithium-rich manganese oxide spinel thin films as 3 V electrode for lithium batteries. *Electrochimica Acta*, **2015**, 180, 528-534	6.7	9
57	From rational design of organometallic precursors to optimized synthesis of core/shell Ge/GeO2 nanoparticles. *Dalton Transactions*, **2015**, 44, 7242-50	4.3	9
56	Pseudotetragonal structure of Li(2+x)Ce(x)(3+)Ce(12-x)(4+)F(50): the first mixed valence cerium fluoride. *Inorganic Chemistry*, **2010**, 49, 686-94	5.1	9
55	Impact of the cycling temperature on electrode/electrolyte interfaces within Li4Ti5O12 vs LiMn2O4 cells. *Journal of Power Sources*, **2020**, 448, 227573	8.9	9
54	Dual Cation- and Anion-Based Redox Process in Lithium Titanium Oxysulfide Thin Film Cathodes for All-Solid-State Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 2275-2284	9.5	8
53	Toward efficient Li-ion cells at high temperatures: Example of TiSnSb material. *Journal of Power Sources*, **2018**, 391, 51-58	8.9	8
52	Atomic Layer Fluorination of the Li4Ti5O12 Surface: A Multiprobing Survey. *ACS Applied Energy Materials*, **2019**, 2, 6681-6692	6.1	8
51	The specific behavior of MxTiS2 (x=1/4, M=Fe, Ni) surfaces probed by scanning microscopy (STM and AFM). *Chemical Physics*, **2003**, 290, 267-278	2.3	8
50	Chemoselective reduction of quinoline over Rh@C60 nanocatalysts. *Catalysis Science and Technology* , **2019**, 9, 6884-6898	5.5	8
49	Improvement of the stability of TiSnSb anode under lithiation using SEI forming additives and room temperature ionic liquid/DMC mixed electrolyte. *Electrochimica Acta*, **2015**, 170, 72-84	6.7	7
48	Role of Negative Electrode Porosity in Long-Term Aging of NMC//Graphite Li-Ion Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A7096-A7103	3.9	7
47	Surface analysis of two misfit layer compounds [(PbS)1.18(TiS2) and (PbS)1.18(TiS2)2] by scanning probe microscopies (AFM and STM) and X-ray photoelectron spectroscopy (XPS). *Applied Surface Science*, **1998**, 125, 259-272	6.7	7
46	Ti vacancies on the (001) surface of TiS2 detected by scanning tunneling microscopy: A combined experimental and theoretical study. *Solid State Sciences*, **2007**, 9, 594-599	3.4	7

45	A study on the aging process of polystyrene thin films treated under DC pulsed discharges conditions in oxygen and argon-oxygen mixtures. *EPJ Applied Physics*, **2003**, 21, 59-66	1.1	7
44	Further theoretical analyses (2D and 3D) of Ni1/4TiS2 probed by XPS/STM studies. *Surface Science*, **2002**, 517, 43-51	1.8	7
43	3D Ruthenium Nanoparticle Covalent Assemblies from Polymantane Ligands for Confined Catalysis. *Chemistry of Materials*, **2020**, 32, 2365-2378	9.6	6
42	Iron molybdate thin films prepared by sputtering and their electrochemical behavior in Li batteries. *Journal of Alloys and Compounds*, **2018**, 735, 1454-1462	5.7	6
41	Electronic structure (XPS and ab-initio band structure calculation) and scanning probe microscopy images of □in sulfide. *Applied Surface Science*, **1996**, 103, 149-158	6.7	6
40	Electrochemical Redox Processes Involved in Carbon-Coated KVPO4F for High Voltage K-Ion Batteries Revealed by XPS Analysis. *Journal of the Electrochemical Society*, **2020**, 167, 130527	3.9	6
39	Silicon-based electrodes formulation in buffered solution for enhanced electrode-electrolyte interfaces. *Journal of Power Sources*, **2021**, 489, 229465	8.9	6
38	Stabilization of Metal Single Atoms on Carbon and TiO2 Supports for CO2 Hydrogenation: The Importance of Regulating Charge Transfer. *Advanced Materials Interfaces*, **2021**, 8, 2001777	4.6	6
37	Surface Layer Fluorination of TiO2 Electrodes for Electrode Protection LiBs: Fading the Reactivity of the Negative Electrode/Electrolyte Interface. *Journal of the Electrochemical Society*, **2019**, 166, A1905-A1914	3.9	5
36	A nanopatterned dual reactive surface driven by block copolymer self-assembly. *Nanoscale*, **2020**, 12, 7532-7537	7.7	5
35	Sustainable quantum dot chemistry: effects of precursor, solvent, and surface chemistry on the synthesis of ZnP nanocrystals. *Chemical Communications*, **2020**, 56, 3321-3324	5.8	5
34	□□Sn M□ssbauer spectroscopy study of the mechanism of lithium reaction with self-organized Ti/Sn/O□ nanotubes. *Nanoscale*, **2014**, 6, 7827-31	7.7	5
33	XPS Analysis of K-based Reference Compounds to Allow Reliable Studies of Solid Electrolyte Interphase in K-ion Batteries. *ACS Applied Energy Materials*,	6.1	5
32	Surface atomic layer fluorination of Li4Ti5O12: Investigation of the surface electrode reactivity and the outgassing behavior in LiBs. *Applied Surface Science*, **2020**, 527, 146834	6.7	4
31	Impact of the metal electrode size in half-cells studies: Example of graphite/Li coin cells. *Electrochemistry Communications*, **2018**, 90, 61-64	5.1	4
30	Design of gold nanoshells via a gelatin-mediated self-assembly of gold nanoparticles on silica cores. *RSC Advances*, **2014**, 4, 63234-63237	3.7	4
29	Investigation of glow-discharge-induced morphology modifications on silicon wafers and chromium conversion coatings by AFM and rugosimetry. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2841-53	4.4	4
28	Thiogermanate glasses□nfluence of the modifier cation□ combined XPS and theoretical study. *Physical Chemistry Chemical Physics*, **2005**, 7, 180-186	3.6	4

27	Cross-Section Auger/XPS Imaging of Conversion Type Electrodes: How Their Morphological Evolution Controls the Performance in Li-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 5300-5307	6.1	3
26	Artificial SEI for Lithium-Ion Battery Anodes: Impact of Fluorinated and Nonfluorinated Additives **2015**, 173-202		3
25	How the Binder/Solvent Formulation Impacts the Electrolyte Reactivity/Solid Electrolyte Interphase Formation and Cycling Stability of Conversion Type Electrodes. *Journal of the Electrochemical Society*, **2020**, 167, 060533	3.9	3
24	Electronic and structural properties of Ti vacancies on the (001) surface of TiS2: theoretical scanning tunneling microscopy images. *Journal of Chemical Physics*, **2007**, 126, 074703	3.9	3
23	A critical discussion on the analysis of buried interfaces in Li solid-state batteries. Ex situ and in situ/operando studies. *Journal of Materials Chemistry A*, **2021**, 9, 25341-25368	13	3
22	Core@Corona Functional Nanoparticle-Driven Rod-Coil Diblock Copolymer Self-Assembly. *Langmuir* , **2019**, 35, 16925-16934	4	3
21	An improved plasmonic Au/Ag/TiO2/rGO photocatalyst through entire visible range absorption, charge separation and high adsorption ability. *New Journal of Chemistry*, **2021**, 45, 11727-11736	3.6	3
20	Influence of the Cathode Potential on Electrode Interactions within a Li4Ti5O12 vs LiNi3/5Mn1/5Co1/5O2 Li-Ion Battery. *Journal of the Electrochemical Society*, **2020**, 167, 040504	3.9	2
19	Experimental Measurement of CO2 Solubility in a 1 mol/kgw CaCl2 Solution at Temperature from 323.15 to 423.15 K and Pressure up to 20 MPa **2018**, 123-134		2
18	Effect of molar mass and regioregularity on the photovoltaic properties of a reduced bandgap phenyl-substituted polythiophene. *Journal of Polymer Science Part A*, **2012**, 50, 1953-1966	2.5	2
17	Study of intercalated Ti atom in tetrahedral or octahedral sites of titanium disulfide (001) surfaces: theoretical scanning tunneling microscopy images. *Journal of Chemical Physics*, **2008**, 128, 014708	3.9	2
16	Regioregular Phenyl and Phenoxy Substituted Polythiophenes for Bulk Heterojunction Solar Cells. *Macromolecular Symposia*, **2008**, 268, 19-24	0.8	2
15	Homoepitaxial growth of CdTe on vicinal CdTe(100) surfaces: Reaction kinetics and mechanism. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1999**, 17, 1-8	2.9	2
14	Impact of the Salt Anion on K Metal Reactivity in EC/DEC Studied Using GC and XPS Analysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 57505-57513	9.5	2
13	Revealing surface functionalities via microwave for the para-fluoro-Thiol click reaction. *Polymer*, **2020**, 202, 122675	3.9	2
12	Cross-Section Auger Analysis to Study the Bulk Organization/Structure of Mn-Co Nano-Composites for Hybrid Supercapacitors. *Journal of the Electrochemical Society*, **2021**, 168, 010508	3.9	2
11	Facile One-Step Synthesis of Polyoxazoline-Coated Iron Oxide Nanoparticles. *ChemistrySelect*, **2018** , 3, 11898-11901	1.8	2
10	Atomic Layer Fluorination of 5 V Class Positive Electrode Material LiCoPO4 for Enhanced Electrochemical Performance. *Batteries and Supercaps*, **2020**, 3, 1051-1058	5.6	1

9	Cross-section Auger imaging: A suitable tool to study aging mechanism of conversion type electrodes. *Journal of Power Sources*, **2019**, 441, 227213	8.9	1
8	Ab initio electron energy-loss spectra and depolarization effects: Application to carbon nanotubes. *International Journal of Quantum Chemistry*, **2012**, 112, 2171-2184	2.1	1
7	UHV-STM images on intercalated metal disulfide Ni1/4TiS2 and Ni1/3TiS2: influence of sulfur chemical surrounding. *Materials Research Bulletin*, **2000**, 35, 1643-1651	5.1	1
6	How carbon coating or continuous carbon pitch matrix influence the silicon electrode/electrolyte interfaces and the performance in Li-ion batteries **2022**, 1, 20210009		1
5	Experimental Determination of CO2 Solubility in Brines At High Temperatures and High Pressures and Induced Corrosion of Materials in Geothermal Equipment **2020**, 9-20		0
4	Functional nanoparticle-driven self-assembled diblock copolymer hybrid nano-patterns. *Polymer Chemistry*, **2022**, 13, 1920-1930	4.9	0
3	Differentiated contrasts for M1/4TiS2 (M=Fe, Ni) UHV-STM images. *Applied Surface Science*, **2000**, 167, 160-168	6.7	
2	2D and 3D Ruthenium Nanoparticle Covalent Assemblies for Phenyl Acetylene Hydrogenation. *European Journal of Inorganic Chemistry*, **2020**, 2020, 4069-4082	2.3	
1	Surface analyses of low carbon steel and stainless steel in geothermal synthetic Na-Ca-Cl brine saturated with CO2. *Results in Surfaces and Interfaces*, **2022**, 100040	0	