Helena Téllez

List of Publications by Year in descending order

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44 papers

1,221 citations

471509 17 h-index 35 g-index

44 all docs

44 docs citations

44 times ranked 1616 citing authors

#	Article	IF	Citations
1	Oxygen Diffusion in Ceramic Mixed Conducting La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{O_{3â^î´}: The Role of Grain and Twin Boundaries. Journal of the Electrochemical Society, 2022, 169, 044513.}	2.9	1
2	A CO ₂ ‶olerant Perovskite Oxide with High Oxide Ion and Electronic Conductivity. Advanced Materials, 2020, 32, e1905200.	21.0	39
3	Electronic properties and surface reactivity of SrO-terminated SrTiO ₃ and SrO-terminated iron-doped SrTiO ₃ . Science and Technology of Advanced Materials, 2018, 19, 221-230.	6.1	31
4	Surface chemistry and restructuring in thin-film La _{n+1} Ni _n O _{3n+1} (n = 1, 2 and 3) Ruddlesden–Popper oxides. Journal of Materials Chemistry A, 2017, 5, 9003-9013.	10.3	16
5	LaTiO _x N _y Thin Film Model Systems for Photocatalytic Water Splitting: Physicochemical Evolution of the Solid–Liquid Interface and the Role of the Crystallographic Orientation. Advanced Functional Materials, 2017, 27, 1605690.	14.9	38
6	Double perovskite cathodes for proton-conducting ceramic fuel cells: are they triple mixed ionic electronic conductors?. Science and Technology of Advanced Materials, 2017, 18, 977-986.	6.1	35
7	Dynamic etching of soluble surface layers with on-line inductively coupled plasma mass spectrometry detection – a novel approach for determination of complex metal oxide surface cation stoichiometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 1638-1646.	3.0	10
8	Influence of Crystal Orientation and Annealing on the Oxygen Diffusion and Surface Exchange of La ₂ NiO _{4+Î} . Journal of Physical Chemistry C, 2016, 120, 17927-17938.	3.1	39
9	(Invited) Effects of Microstructure on Surface Segregation: Role of Grain Boundaries. ECS Transactions, 2016, 72, 57-69.	0.5	9
10	The interaction of molecular oxygen on LaO terminated surfaces of La ₂ NiO ₄ . Journal of Materials Chemistry A, 2016, 4, 13113-13124.	10.3	54
11	Relating surface chemistry and oxygen surface exchange in LnBaCo ₂ O _{5+δ} air electrodes. Faraday Discussions, 2015, 182, 145-157.	3.2	36
12	Surface Segregation in Solid Oxide Electrode Materials Occurring at Intermediate Temperatures. ECS Transactions, 2015, 66, 61-68.	0.5	3
13	Surface Segregation and Inter-Diffusion of Cations and Impurities in Microelectrodes for Solid Oxide Fuel Cells and Electrolyzers. ECS Transactions, 2015, 66, 69-77.	0.5	4
14	Surface Composition of Layered Ruddlesden-Popper La $<$ sub $>$ n+1 $<$ /sub $>$ Ni $<$ sub $>$ n $<$ /sub $>$ O $<$ sub $>$ 3n+1 $<$ /sub $>$ (n = 1, 2 and 3) Epitaxial Films. ECS Transactions, 2015, 66, 89-93.	0.5	4
15	Accurate and Precise Measurement of Oxygen Isotopic Fractions and Diffusion Profiles by Selective Attenuation of Secondary Ions (SASI). Analytical Chemistry, 2015, 87, 2907-2915.	6.5	11
16	Segregated Chemistry and Structure on (001) and (100) Surfaces of (La _{1â€"<i>x</i>} Sr _{<i>x</i>}) ₂ CoO ₄ Override the Crystal Anisotropy in Oxygen Exchange Kinetics. Chemistry of Materials, 2015, 27, 5436-5450.	6.7	115
17	Oxygen exchange and transport in dual phase ceramic composite electrodes. Faraday Discussions, 2015, 182, 271-288.	3.2	31
18	Electronic and surface properties of Ga-doped In2O3 ceramics. Applied Surface Science, 2015, 349, 970-982.	6.1	29

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19	Surface chemistry of La $<$ sub $>$ 0.6 $<$ /sub $>$ Sr $<$ sub $>$ 0.4 $<$ /sub $>$ CoO $<$ sub $>$ 3â * Î * $<$ /sub $>$ thin films and its impact on the oxygen surface exchange resistance. Journal of Materials Chemistry A, 2015, 3, 22759-22769.	10.3	102
20	Fundamental electrochemistry: general discussion. Faraday Discussions, 2015, 182, 177-212.	3.2	1
21	Materials development: general discussion. Faraday Discussions, 2015, 182, 307-328.	3.2	0
22	Surface Composition and Oxygen Transport Properties of LSCF: From Bulk Ceramics to Devices. ECS Transactions, 2015, 68, 557-567.	0.5	1
23	Oxygen Activation and Dissociation on Transition Metal Free Perovskite Surfaces. Chemistry of Materials, 2015, 27, 8273-8281.	6.7	87
24	Low energy ion scattering: surface preparation and analysis of Cu(In,Ga)Se ₂ for photovoltaic applications. Progress in Photovoltaics: Research and Applications, 2015, 23, 1219-1227.	8.1	3
25	Surface composition of solid oxide electrode structures by laterally resolved low energy ion scattering (LEIS). International Journal of Hydrogen Energy, 2014, 39, 20850-20855.	7.1	10
26	Surface segregation and poisoning in materials for low-temperature SOFCs. MRS Bulletin, 2014, 39, 810-815.	3.5	47
27	New perspectives in the surface analysis of energy materials by combined time-of-flight secondary ion mass spectrometry (ToF-SIMS) and high sensitivity low-energy ion scattering (HS-LEIS). Journal of Analytical Atomic Spectrometry, 2014, 29, 1361.	3.0	38
28	Surface termination and subsurface restructuring of perovskite-based solid oxide electrode materials. Energy and Environmental Science, 2014, 7, 3593-3599.	30.8	273
29	Surface chemistry evolution in LnBaCo2O5Â+Â double perovskites for oxygen electrodes. International Journal of Hydrogen Energy, 2014, 39, 20856-20863.	7.1	52
30	High Resolution Electron Microscopy Characterization of (La0.5Sr0.5)2CoC4 Thin Film Cathode Materials. Microscopy and Microanalysis, 2014, 20, 1912-1913.	0.4	0
31	Determination of 16O and 18O sensitivity factors and charge-exchange processes in low-energy ion scattering. Applied Physics Letters, 2012, 101, .	3.3	11
32	Secondary ion mass spectrometry of powdered explosive compounds for forensic evidence analysis. Rapid Communications in Mass Spectrometry, 2012, 26, 1203-1207.	1.5	4
33	Multi-analytical study of patination methods on steel substrates: a full insight into surface chemistry and morphology. Analytical and Bioanalytical Chemistry, 2012, 402, 2277-2285.	3.7	2
34	Depth-profiling analysis of MOCVD-grown triple junction solar cells by SIMS. Surface and Interface Analysis, 2011, 43, 646-648.	1.8	1
35	Development of an energy-resolved method for SIMS in-depth analysis of metal-polymer interfaces. Surface and Interface Analysis, 2011, 43, 632-634.	1.8	2
36	Investigation of metallic interdiffusion in Al x Ga1â^x N/GaN/sapphire heterostructures used for microelectronic devices by SEM/EDX and SIMS depth profiling. Analytical and Bioanalytical Chemistry, 2010, 397, 2865-2871.	3.7	3

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37	Bibliometric study of journal publications on analytical chemistry 2000–2007: publication productivity and journal preferences by country. Analytical and Bioanalytical Chemistry, 2010, 397, 1477-1484.	3.7	4
38	Atomic/molecular depth profiling of nanometricâ€metallized polymer thin films by secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 463-468.	1.5	3
39	SIMS investigation on the effect of the interstitial moisture in metallized polymer films. Journal of Analytical Atomic Spectrometry, 2010, 25, 669.	3.0	5
40	Screening and confirmatory methods for the analysis of macrocyclic lactone mycotoxins by CE with amperometric detection. Electrophoresis, 2009, 30, 499-506.	2.4	22
41	Energyâ€resolved depth profiling of metalâ€polymer interfaces using dynamic quadrupole secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 2357-2362.	1.5	8
42	Validation of a screening method for rapid control of macrocyclic lactone mycotoxins in maize flour samples. Analytical and Bioanalytical Chemistry, 2008, 391, 709-714.	3.7	17
43	Focused ion beam imaging of laser ablation sub-surface effects on layered materials. Applied Surface Science, 2008, 255, 2265-2269.	6.1	6
44	Reliability of binary analytical responses. TrAC - Trends in Analytical Chemistry, 2005, 24, 509-515.	11.4	14