Helena Téllez

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1204785/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Surface termination and subsurface restructuring of perovskite-based solid oxide electrode materials. Energy and Environmental Science, 2014, 7, 3593-3599.	30.8	273
2	Segregated Chemistry and Structure on (001) and (100) Surfaces of (La _{1–<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
3	Surface chemistry of La _{0.6} Sr _{0.4} CoO _{3â^îr} thin films and its impact on the oxygen surface exchange resistance. Journal of Materials Chemistry A, 2015, 3, 22759-22769.	10.3	102
4	Oxygen Activation and Dissociation on Transition Metal Free Perovskite Surfaces. Chemistry of Materials, 2015, 27, 8273-8281.	6.7	87
5	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
6	Surface chemistry evolution in LnBaCo2O5Â+Â double perovskites for oxygen electrodes. International Journal of Hydrogen Energy, 2014, 39, 20856-20863.	7.1	52
7	Surface segregation and poisoning in materials for low-temperature SOFCs. MRS Bulletin, 2014, 39, 810-815.	3.5	47
8	Influence of Crystal Orientation and Annealing on the Oxygen Diffusion and Surface Exchange of La ₂ NiO _{4+l̂´} . Journal of Physical Chemistry C, 2016, 120, 17927-17938.	3.1	39
9	A CO ₂ â€Tolerant Perovskite Oxide with High Oxide Ion and Electronic Conductivity. Advanced Materials, 2020, 32, e1905200.	21.0	39
10	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
11	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
12	Relating surface chemistry and oxygen surface exchange in LnBaCo ₂ O _{5+δ} air electrodes. Faraday Discussions, 2015, 182, 145-157.	3.2	36
13	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
14	Oxygen exchange and transport in dual phase ceramic composite electrodes. Faraday Discussions, 2015, 182, 271-288.	3.2	31
15	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
16	Electronic and surface properties of Ga-doped In2O3 ceramics. Applied Surface Science, 2015, 349, 970-982.	6.1	29
17	Screening and confirmatory methods for the analysis of macrocyclic lactone mycotoxins by CE with amperometric detection. Electrophoresis, 2009, 30, 499-506.	2.4	22
18	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

Helena Téllez

#	Article	lF	CITATIONS
19	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
20	Reliability of binary analytical responses. TrAC - Trends in Analytical Chemistry, 2005, 24, 509-515.	11.4	14
21	Determination of 16O and 18O sensitivity factors and charge-exchange processes in low-energy ion scattering. Applied Physics Letters, 2012, 101, .	3.3	11
22	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
23	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
24	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
25	(Invited) Effects of Microstructure on Surface Segregation: Role of Grain Boundaries. ECS Transactions, 2016, 72, 57-69.	0.5	9
26	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
27	Focused ion beam imaging of laser ablation sub-surface effects on layered materials. Applied Surface Science, 2008, 255, 2265-2269.	6.1	6
28	SIMS investigation on the effect of the interstitial moisture in metallized polymer films. Journal of Analytical Atomic Spectrometry, 2010, 25, 669.	3.0	5
29	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
30	Secondary ion mass spectrometry of powdered explosive compounds for forensic evidence analysis. Rapid Communications in Mass Spectrometry, 2012, 26, 1203-1207.	1.5	4
31	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
32	Surface Composition of Layered Ruddlesden-Popper La _{n+1} Ni _n O _{3n+1} (n = 1, 2 and 3) Epitaxial Films. ECS Transactions, 2015, 66, 89-93.	0.5	4
33	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
34	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
35	Surface Segregation in Solid Oxide Electrode Materials Occurring at Intermediate Temperatures. ECS Transactions, 2015, 66, 61-68.	0.5	3
36	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

Helena Téllez

#	Article	IF	CITATIONS
37	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
38	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
39	Depth-profiling analysis of MOCVD-grown triple junction solar cells by SIMS. Surface and Interface Analysis, 2011, 43, 646-648.	1.8	1
40	Fundamental electrochemistry: general discussion. Faraday Discussions, 2015, 182, 177-212.	3.2	1
41	Surface Composition and Oxygen Transport Properties of LSCF: From Bulk Ceramics to Devices. ECS Transactions, 2015, 68, 557-567.	0.5	1
42	Oxygen Diffusion in Ceramic Mixed Conducting La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3â^î^} : The Role of Grain and Twin Boundaries. Journal of the Electrochemical Society, 2022, 169, 044513.	2.9	1
43	High Resolution Electron Microscopy Characterization of (La0.5Sr0.5)2CoC4 Thin Film Cathode Materials. Microscopy and Microanalysis, 2014, 20, 1912-1913.	0.4	0
44	Materials development: general discussion. Faraday Discussions, 2015, 182, 307-328.	3.2	0