

Helena Tã©llez

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,221
citations

471477

17
h-index

361001

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 $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$: The Role of Grain and Twin Boundaries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 044513. | 2.9 | 1 |
| 2 | A CO_2 -Tolerant Perovskite Oxide with High Oxide Ion and Electronic Conductivity. <i>Advanced Materials</i> , 2020, 32, e1905200. | 21.0 | 39 |
| 3 | Electronic properties and surface reactivity of SrO-terminated SrTiO_3 and SrO-terminated iron-doped SrTiO_3 . <i>Science and Technology of Advanced Materials</i> , 2018, 19, 221-230. | 6.1 | 31 |
| 4 | Surface chemistry and restructuring in thin-film $\text{La}_{n+1}\text{Ni}_n\text{O}_{3n+1}$ ($n = 1, 2$ and 3) Ruddlesden-Popper oxides. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9003-9013. | 10.3 | 16 |
| 5 | LaTiO_xN_y Thin Film Model Systems for Photocatalytic Water Splitting: Physicochemical Evolution of the Solid-Liquid Interface and the Role of the Crystallographic Orientation. <i>Advanced Functional Materials</i> , 2017, 27, 1605690. | 14.9 | 38 |
| 6 | Double perovskite cathodes for proton-conducting ceramic fuel cells: are they triple mixed ionic electronic conductors?. <i>Science and Technology of Advanced Materials</i> , 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. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1638-1646. | 3.0 | 10 |
| 8 | Influence of Crystal Orientation and Annealing on the Oxygen Diffusion and Surface Exchange of $\text{La}_2\text{NiO}_{4+\delta}$. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17927-17938. | 3.1 | 39 |
| 9 | (Invited) Effects of Microstructure on Surface Segregation: Role of Grain Boundaries. <i>ECS Transactions</i> , 2016, 72, 57-69. | 0.5 | 9 |
| 10 | The interaction of molecular oxygen on LaO terminated surfaces of La_2NiO_4 . <i>Journal of Materials Chemistry A</i> , 2016, 4, 13113-13124. | 10.3 | 54 |
| 11 | Relating surface chemistry and oxygen surface exchange in $\text{LnBaCo}_2\text{O}_{5+\delta}$ air electrodes. <i>Faraday Discussions</i> , 2015, 182, 145-157. | 3.2 | 36 |
| 12 | Surface Segregation in Solid Oxide Electrode Materials Occurring at Intermediate Temperatures. <i>ECS Transactions</i> , 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. <i>ECS Transactions</i> , 2015, 66, 69-77. | 0.5 | 4 |
| 14 | Surface Composition of Layered Ruddlesden-Popper $\text{La}_{n+1}\text{Ni}_n\text{O}_{3n+1}$ ($n = 1, 2$ and 3) Epitaxial Films. <i>ECS Transactions</i> , 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). <i>Analytical Chemistry</i> , 2015, 87, 2907-2915. | 6.5 | 11 |
| 16 | Segregated Chemistry and Structure on (001) and (100) Surfaces of $(\text{La}_{1-x}\text{Sr}_x)_2\text{CoO}_4$ Override the Crystal Anisotropy in Oxygen Exchange Kinetics. <i>Chemistry of Materials</i> , 2015, 27, 5436-5450. | 6.7 | 115 |
| 17 | Oxygen exchange and transport in dual phase ceramic composite electrodes. <i>Faraday Discussions</i> , 2015, 182, 271-288. | 3.2 | 31 |
| 18 | Electronic and surface properties of Ga-doped In_2O_3 ceramics. <i>Applied Surface Science</i> , 2015, 349, 970-982. | 6.1 | 29 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Surface chemistry of La _{0.6} Sr _{0.4} CoO ₃ thin films and its impact on the oxygen surface exchange resistance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22759-22769. | 10.3 | 102 |
| 20 | Fundamental electrochemistry: general discussion. <i>Faraday Discussions</i> , 2015, 182, 177-212. | 3.2 | 1 |
| 21 | Materials development: general discussion. <i>Faraday Discussions</i> , 2015, 182, 307-328. | 3.2 | 0 |
| 22 | Surface Composition and Oxygen Transport Properties of LSCF: From Bulk Ceramics to Devices. <i>ECS Transactions</i> , 2015, 68, 557-567. | 0.5 | 1 |
| 23 | Oxygen Activation and Dissociation on Transition Metal Free Perovskite Surfaces. <i>Chemistry of Materials</i> , 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. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1219-1227. | 8.1 | 3 |
| 25 | Surface composition of solid oxide electrode structures by laterally resolved low energy ion scattering (LEIS). <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20850-20855. | 7.1 | 10 |
| 26 | Surface segregation and poisoning in materials for low-temperature SOFCs. <i>MRS Bulletin</i> , 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). <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1361. | 3.0 | 38 |
| 28 | Surface termination and subsurface restructuring of perovskite-based solid oxide electrode materials. <i>Energy and Environmental Science</i> , 2014, 7, 3593-3599. | 30.8 | 273 |
| 29 | Surface chemistry evolution in LnBaCo ₂ O ₅ double perovskites for oxygen electrodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20856-20863. | 7.1 | 52 |
| 30 | High Resolution Electron Microscopy Characterization of (La _{0.5} Sr _{0.5}) ₂ CoC ₄ Thin Film Cathode Materials. <i>Microscopy and Microanalysis</i> , 2014, 20, 1912-1913. | 0.4 | 0 |
| 31 | Determination of ¹⁶ O and ¹⁸ O sensitivity factors and charge-exchange processes in low-energy ion scattering. <i>Applied Physics Letters</i> , 2012, 101, . | 3.3 | 11 |
| 32 | Secondary ion mass spectrometry of powdered explosive compounds for forensic evidence analysis. <i>Rapid Communications in Mass Spectrometry</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2277-2285. | 3.7 | 2 |
| 34 | Depth-profiling analysis of MOCVD-grown triple junction solar cells by SIMS. <i>Surface and Interface Analysis</i> , 2011, 43, 646-648. | 1.8 | 1 |
| 35 | Development of an energy-resolved method for SIMS in-depth analysis of metal-polymer interfaces. <i>Surface and Interface Analysis</i> , 2011, 43, 632-634. | 1.8 | 2 |
| 36 | Investigation of metallic interdiffusion in Al _x Ga _{1-x} N/GaN/sapphire heterostructures used for microelectronic devices by SEM/EDX and SIMS depth profiling. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2865-2871. | 3.7 | 3 |

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