

# Annie Le Gal La Salle

## List of Publications by Year in descending order

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59  
papers

1,386  
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394421

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345221

36  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1750  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Ceria nanoparticles as promoters of CO <sub>2</sub> electroreduction on Ni/YSZ: An efficient preparation strategy and insights into the catalytic promotion mechanism. <i>Nano Energy</i> , 2022, 101, 107564.   | 16.0 | 8         |
| 2  | Exsolution of Ni Nanoparticles from A-Site-Deficient Layered Double Perovskites for Dry Reforming of Methane and as an Anode Material for a Solid Oxide Fuel Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35719-35728.  | 8.0  | 35        |
| 3  | <i>In situ</i> exsolution of Ni particles on the PrBaMn <sub>2</sub> O <sub>5</sub> SOFC electrode material monitored by high temperature neutron powder diffraction under hydrogen. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3590-3597.   | 10.3 | 20        |
| 4  | Electrochemical Study of the Versatility of a Solid Cell Working both as Fuel Cell and Electrolysis Modes. <i>Fuel Cells</i> , 2020, 20, 332-341.  | 2.4  | 1         |
| 5  | Application of the cold sintering process to the electrolyte material BaCe <sub>0.8</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> . <i>Journal of the European Ceramic Society</i> , 2020, 40, 3445-3452.  | 5.7  | 9         |
| 6  | Influence of Surface State on the Electrochemical Performance of Nickel-Based Cermet Electrodes during Steam Electrolysis. <i>ACS Applied Energy Materials</i> , 2019, 2, 7045-7055.   | 5.1  | 20        |
| 7  | High Performance Dense Proton Ceramic Electrolyte Material Obtained by Cold Sintering Process. <i>ECS Transactions</i> , 2019, 91, 983-996.  | 0.5  | 1         |
| 8  | New KRb <sub>2</sub> Sb <sub>4</sub> BO <sub>13</sub> and Rb <sub>3</sub> Sb <sub>4</sub> BO <sub>13</sub> compounds prepared by Rb <sup>+</sup> /K <sup>+</sup> ion exchange from the K <sub>3</sub> Sb <sub>4</sub> BO <sub>13</sub> ion conductor. <i>CrystEngComm</i> , 2019, 21, 594-601.                       | 2.6  | 2         |
| 9  | Electricity production from lignocellulosic biomass by direct coupling of a gasifier and a nickel/yttria-stabilized zirconia-based solid oxide fuel cell: influence of the H <sub>2</sub> S content of the syngas onto performances and aging. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2789-2800. | 2.5  | 5         |
| 10 | Metal Atom Clusters as Building Blocks for Multifunctional Proton-Conducting Materials: Theoretical and Experimental Characterization. <i>Inorganic Chemistry</i> , 2018, 57, 9814-9825.   | 4.0  | 10        |
| 11 | Influence of the autocombustion synthesis conditions and the calcination temperature on the microstructure and electrochemical properties of BaCe <sub>0.8</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> electrolyte material. <i>Solid State Ionics</i> , 2018, 325, 48-56.           | 2.7  | 5         |
| 12 | K <sub>3</sub> Sb <sub>4</sub> O <sub>10</sub> (BO <sub>3</sub> ): A solid state K-ion conductor. <i>Solid State Ionics</i> , 2018, 324, 260-266.  | 2.7  | 19        |
| 13 | Electrochemical Study of a SOFC with Various H <sub>2</sub> /CO/CH <sub>4</sub> /N <sub>2</sub> Gaseous Mixtures. <i>Fuel Cells</i> , 2017, 17, 144-150.   | 7.4  | 10        |
| 14 | Electricity production from lignocellulosic biomass by direct coupling of a gasifier and a Nickel/Yttria-stabilized Zirconia-based solid oxide fuel cell. Part 1: From gas production to direct electricity production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21215-21225.                     | 7.1  | 10        |
| 15 | Effects of carbon monoxide, carbon dioxide, and methane on nickel/yttria-stabilized zirconia-based solid oxide fuel cells performance for direct coupling with a gasifier. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10231-10241.  | 7.1  | 23        |
| 16 | Optimization of SOFC anode/electrolyte assembly based on Ba <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2.85</sub> (BIT07)/Ni-BIT07 using an interfacial anodic layer. <i>Journal of Power Sources</i> , 2014, 251, 66-74.   | 7.8  | 9         |
| 17 | Tape casting fabrication, co-sintering and optimisation of anode/electrolyte assemblies for SOFC based on BIT07-Ni/BIT07. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4346-4355.   | 7.1  | 17        |
| 18 | Ba <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2.85</sub> Electrolyte/Anode Half Cell for Solid Oxide Fuel Cell Prepared by Reactive Sintering. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 1071-1075.   | 2.1  | 0         |

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|----|--|-----|-----------|
| 19 | Characteristics and performance improvement of anode supported solid oxide fuel cells based on $\text{BaIn}_{0.3}\text{Ti}_{0.7}\text{O}_{2.85}$ (BIT07) as electrolyte, BIT07-Ni as anode and $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (LSCF) as cathode. <i>Journal of Power Sources</i> , 2012, 206, 210-214.   | 7.8 | 7         |
| 20 | Characterisation and optimisation of the cathode/electrolyte couple for SOFC LSCF/BIT07. <i>Journal of Power Sources</i> , 2012, 212, 161-168.   | 7.8 | 15        |
| 21 | Electrochemical impedance measurements for evaluation of the different components of a complete solid oxide fuel cell associating $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ as cathode, $\text{BaIn}_{0.3}\text{Ti}_{0.7}\text{O}_{2.85}$ as electrolyte and $\text{BaIn}_{0.3}\text{Ti}_{0.7}\text{O}_{2.85}$ -Ni cermet as anode. <i>Journal of Power Sources</i> , 2011, 196, 10576-10583. | 7.8 | 6         |
| 22 | Compatibility of $\text{La}_{26}\text{O}_{27}(\text{BO}_3)_8$ electrolyte with standard cathode materials for use in proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7435-7441.   | 7.8 | 10        |
| 23 | Evaluation of $\text{Ba}_2(\text{In}_{0.8}\text{Ti}_{0.2})_2\text{O}_{5.2}\text{n}(\text{OH})_2\text{n}$ as a potential electrolyte material for proton-conducting solid oxide fuel cell. <i>Journal of Power Sources</i> , 2010, 195, 4923-4927.  | 7.8 | 14        |
| 24 | Synthesis, structural analysis and electrochemical performances of BLSITCFx as new cathode materials for solid oxide fuel cells (SOFC) based on BIT07 electrolyte. <i>Journal of Power Sources</i> , 2010, 195, 4779-4784.   | 7.8 | 10        |
| 25 | BITX: New Electrolyte for Oxide Ion and Proton SOFC. <i>ECS Transactions</i> , 2009, 25, 1801-1808.  | 0.5 | 0         |
| 26 | Validation of $\text{BaIn}_{0.3}\text{Ti}_{0.7}\text{O}_{2.85}$ as SOFC Electrolyte with $\text{Nd}_2\text{NiO}_4$ , LSM and LSCF as Cathodes. <i>Fuel Cells</i> , 2009, 9, 622-629.   | 2.4 | 16        |
| 27 | Nanostructured manganese dioxides: Synthesis and properties as supercapacitor electrode materials. <i>Electrochimica Acta</i> , 2009, 54, 1240-1248.   | 5.2 | 108       |
| 28 | Electrochemical Optimization of LSCF/BIT07 as an Alternative Cathode/electrolyte Couple for SOFC. <i>ECS Transactions</i> , 2009, 25, 2837-2844.   | 0.5 | 0         |
| 29 | The Origin of Capacity Fading upon Lithium Cycling in $\text{Li}_{1.1}\text{V}_3\text{O}_8$ . <i>Journal of the Electrochemical Society</i> , 2005, 152, A1660.  | 2.9 | 84        |
| 30 | New alkaline earth substituted lithium trivanadates: synthesis, characterization and lithium insertion behavior. <i>Journal of Materials Chemistry</i> , 2003, 13, 1827.   | 6.7 | 9         |
| 31 | Influence of the morphology on the Li insertion properties of $\text{Li}_{1.1}\text{V}_3\text{O}_8$ . <i>Journal of Materials Chemistry</i> , 2003, 13, 921.   | 6.7 | 69        |
| 32 | Lithium insertion/deinsertion properties of new layered vanadium oxides obtained by oxidation of the precursor $\text{H}_2\text{V}_3\text{O}_8$ . <i>Electrochimica Acta</i> , 2002, 47, 1153-1161.  | 5.2 | 20        |
| 33 | Influence of structural parameters on proton insertion in $\delta\text{-MnO}_2$ . <i>Electrochimica Acta</i> , 2002, 48, 11-20.  | 5.2 | 13        |
| 34 | Influence of the Cr Content on the Electrochemical Behavior of the $\text{LiCr}_y\text{Mn}_{2-y}\text{O}_4$ ( $0 \leq y \leq 1$ ) Compounds: III. Galvanostatic Study of Bulk and Superficial Processes. <i>Journal of the Electrochemical Society</i> , 2001, 148, A826.  | 2.9 | 21        |
| 35 | Influence of the Cr Content on the Li Deinsertion Behavior of the $\text{LiCr}_y\text{Mn}_{2-y}\text{O}_4$ ( $0 \leq y \leq 1$ ) Compounds: I. Separation of Bulk and Superficial Processes at High Voltage. <i>Journal of the Electrochemical Society</i> , 2001, 148, A812.  | 2.9 | 43        |
| 36 | Influence of the Cr Content on the Electrochemical Behavior of the $\text{LiCr}_y\text{Mn}_{2-y}\text{O}_4$ ( $0 \leq y \leq 1$ ) Compounds: II. Cyclic Voltammetric Study of Bulk and Superficial Processes. <i>Journal of the Electrochemical Society</i> , 2001, 148, A819.   | 2.9 | 16        |

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|----|---|-----|-----------|
| 37 | Interleaved oxovanadium cations in the rancieite manganese oxide $\hat{\Gamma}^{\text{MnO}_2}$ . Journal of Materials Chemistry, 2001, 11, 652-656.   | 6.7 | 8         |
| 38 | LiMBO <sub>3</sub> (M=Mn, Fe, Co): synthesis, crystal structure and lithium deinsertion/insertion properties. Solid State Ionics, 2001, 139, 37-46.   | 2.7 | 198       |
| 39 | Synthesis of nanocrystalline layered manganese oxides by the electrochemical reduction of AMnO <sub>4</sub> (A) Tj ETQq1 1 0.784314 rgBT /OV  | 7.8 | 16        |
| 40 | Electrochemical synthesis, characterization and lithium intercalation properties of e-MxV <sub>2</sub> O <sub>5+y</sub> .nH <sub>2</sub> O (M=NiII, CuII or MnIV). Journal of Physics and Chemistry of Solids, 2001, 62, 1447-1455.                         | 4.0 | 13        |
| 41 | Influence of structural defects on the insertion behavior of $\hat{\Gamma}^{\text{MnO}_2}$ : comparison of H <sup>+</sup> and Li <sup>+</sup> . Solid State Ionics, 2001, 140, 223-232.   | 2.7 | 25        |
| 42 | K <sub>2</sub> [Te <sub>4</sub> O <sub>8</sub> (OH) <sub>10</sub> ]: synthesis, crystal structure and thermal behavior. Solid State Sciences, 2001, 3, 93-101.  | 3.2 | 12        |
| 43 | A New Layered Vanadium Oxide Prepared by Electrochemical Transformation of a Solid Precursor. Journal of the Electrochemical Society, 2001, 148, A258.  | 2.9 | 6         |
| 44 | Electrochemical Synthesis of Beta- and Gamma-Manganese Dioxides under Hydrothermal Conditions. Electrochemical and Solid-State Letters, 2001, 4, D1.  | 2.2 | 23        |
| 45 | Li <sub>2</sub> Mn(V <sub>2</sub> O <sub>7</sub> ) <sub>4</sub> ·2H <sub>2</sub> O: synthesis, crystal structure, thermal behavior and lithium insertion/deinsertion properties. Solid State Ionics, 2000, 133, 161-170.                                    | 2.7 | 10        |
| 46 | Synthesis and Characterization of $\hat{\Gamma}^{\text{MnO}}$ Samples with Unusual Structural Parameters. Journal of the Electrochemical Society, 2000, 147, 945.   | 2.9 | 17        |
| 47 | New layered vanadium oxides MyH1 $\hat{\Gamma}^{\text{V}_3\text{O}_8 \cdot n\text{H}_2\text{O}}$ (M = Li, Na, K) obtained by oxidation of the precursor H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> . Journal of Materials Chemistry, 2000, 10, 2805-2810. | 6.7 | 13        |
| 48 | Negative and positive electrode materials for lithium-ion batteries. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 1999, 2, 603-610.   | 0.1 | 0         |
| 49 | $\hat{\Gamma}^{\text{MnO}_2}$ for Li batteries. Journal of Power Sources, 1999, 81-82, 656-660.   | 7.8 | 40        |
| 50 | e-V <sub>2</sub> O <sub>5</sub> : Relationships between synthesis conditions, material characteristics and lithium intercalation behavior. Journal of Power Sources, 1999, 81-82, 666-669.  | 7.8 | 19        |
| 51 | $\hat{\Gamma}^{\text{MnO}_2}$ for Li batteries. Journal of Power Sources, 1999, 81-82, 661-665.   | 7.8 | 23        |
| 52 | Electrochemically synthesized vanadium oxides as lithium insertion hosts. Electrochimica Acta, 1999, 45, 197-214.   | 5.2 | 147       |
| 53 | Synthesis, Characterization and lithium Intercalation behavior of electrodeposited V <sub>2</sub> O <sub>5</sub> . Molecular Crystals and Liquid Crystals, 1998, 311, 75-80.  | 0.3 | 4         |
| 54 | Electrochemical study of the lithium insertion mechanism into Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . Molecular Crystals and Liquid Crystals, 1998, 311, 63-68.   | 0.3 | 8         |

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|----|---|-----|-----------|
| 55 | Understanding of Lithium Insertion into $\delta$ - $\text{MnO}_2$ Compounds. Materials Research Society Symposia Proceedings, 1998, 548, 251.   | 0.1 | 13        |
| 56 | New amorphous oxides as high capacity negative electrodes for lithium batteries: the $\text{Li}_x\text{MVO}_4$ (M = Ni, Tj) $\text{ETQq}0.0\text{rgBT} / \text{Overlock} 10$  | 7.8 | 66        |
| 57 | New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels. Analytica Chimica Acta, 1995, 311, 301-308.   | 5.4 | 13        |
| 58 | Determination of alkaline phosphatase using a Nafion <sup>®</sup> -modified electrode. Journal of Electroanalytical Chemistry, 1994, 379, 281-291.  | 3.8 | 23        |
| 59 | Utilization of a Nafion <sup>®</sup> -modified electrode in a competitive homogeneous electrochemical immunoassay involving a redox cationic labelled hapténâ€”phenytoin. Journal of Electroanalytical Chemistry, 1993, 350, 329-335. | 3.8 | 24        |