# ValÃ©rie Briois

List of Publications by Year
in descending order



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|---|---|---|---|
| 34 papers | 1,239 citations | 394421 19 h-index | 395702 33 g-index |
| 34 all docs | 34 docs citations | 34 times ranked | 1383 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cationic Order and Structure of [Znâˆ’Crâˆ’Cl] and [Cuâˆ’Crâˆ’Cl] Layered Double Hydroxides:Â A XRD and EXAFS Study. Journal of Physical Chemistry B, 2000, 104, 5915-5923. | 2.6 | 117 |
| 2 | ROCK: the new Quick-EXAFS beamline at SOLEIL. Journal of Physics: Conference Series, 2016, 712, 012149. | 0.4 | 111 |
| 3 | Multivariate curve resolution analysis applied to time-resolved synchrotron X-ray Absorption Spectroscopy monitoring of the activation of copper alumina catalyst. Catalysis Today, 2014, 229, 114-122. | 4.4 | 108 |
| 4 | X-ray absorption spectroscopy and heterogeneous catalysis: Performances at the SOLEIL's SAMBA beamline. Catalysis Today, 2013, 205, 148-158. | 4.4 | 78 |
| 5 | The SAMBA quick-EXAFS monochromator: XAS with edge jumping. Journal of Synchrotron Radiation, 2012, 19, 417-424. | 2.4 | 76 |
| 6 | Speciation of Ruthenium as a Reduction Promoter of Silica-Supported Co Catalysts: A Time-Resolved in Situ XAS Investigation. ACS Catalysis, 2015, 5, 1273-1282. | 11.2 | 76 |
| 7 | Exploring the catalytic performance of a series of bimetallic MIL-100(Fe, Ni) MOFs. Journal of Materials Chemistry A, 2019, 7, 20285-20292. | 10.3 | 69 |
| 8 | Co-K and Mo-K edges Quick-XAS study of the sulphidation properties of Mo/Al2O3 and CoMo/Al2O3 catalysts. Comptes Rendus Chimie, 2016, 19, 1337-1351. | 0.5 | 57 |
| 9 | High pressure cell for edge jumping X-ray absorption spectroscopy: Applications to industrial liquid sulfidation of hydrotreatment catalysts. Catalysis Today, 2019, 336, 63-73. | 4.4 | 54 |
| 10 | XAS/WAXS Time-Resolved Phase Speciation of Chlorine LDH Thermal Transformation: Emerging Roles of Isovalent Metal Substitution. Chemistry of Materials, 2013, 25, 2855-2867. | 6.7 | 52 |
| 11 | Effect of the balance between Co(II) and Co(0) oxidation states on the catalytic activity of cobalt catalysts for Ethanol Steam Reforming. Catalysis Today, 2014, 229, 88-94. | 4.4 | 50 |
| 12 | Correlation between Structural and Catalytic Properties of Copper Supported on Porous Alumina for the Ethanol Dehydrogenation Reaction. ChemCatChem, 2015, 7, 1668-1677. | 3.7 | 46 |
| 13 | Influence of the Preparation Conditions of Oxidic NiMo/Al<sub>2</sub>O<sub>3</sub> Catalysts on the Sulfidation Ability: A Quick-XAS and Raman Spectroscopic Study. Journal of Physical Chemistry C, 2015, 119, 23928-23942. | 3.1 | 35 |
| 14 | Polymerâ€“clay nanocomposites thermal stability: experimental evidence of the radical trapping effect. RSC Advances, 2013, 3, 22830. | 3.6 | 32 |
| 15 | Operando monitoring of metal sites and coke evolution during non-oxidative and oxidative ethanol steam reforming over Ni and NiCu ex-hydrotalcite catalysts. Catalysis Today, 2019, 336, 122-130. | 4.4 | 27 |
| 16 | Quick-XAS and Raman operando characterisation of a cobalt alumina-supported catalyst under realistic Fischerâ€“Tropsch reaction conditions. Catalysis Today, 2013, 205, 94-100. | 4.4 | 25 |
| 17 | ROCK: A Beamline Tailored for Catalysis and Energy-Related Materials from ms Time Resolution to Âµm Spatial Resolution. Synchrotron Radiation News, 2020, 33, 20-25. | 0.8 | 24 |
| 18 | Correlation of Solâ€“Gel Aluminaâ€Supported Cobalt Catalyst Processing to Cobalt Speciation, Ethanol Steam Reforming Activity, and Stability. ChemCatChem, 2017, 9, 3918-3929. | 3.7 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Sol-gel synthesis of nanocrystalline MgO and its application as support in Ni/MgO catalysts for ethanol steam reforming. Applied Surface Science, 2021, 542, 148744. | 6.1 | 21 |
| 20 | Molecular approach to prepare mixed MoW alumina supported hydrotreatment catalysts using H<sub>4</sub>SiMo<sub>n</sub>W<sub>12âˆ’n</sub>O<sub>40</sub>heteropolyacids. Catalysis Science and Technology, 2018, 8, 5557-5572. | 4.1 | 20 |
| 21 | Insights into the Preparation of Copper Catalysts Supported on Layered Double Hydroxide Derived Mixed Oxides for Ethanol Dehydrogenation. ACS Applied Materials & Interfaces, 2021, 13, 26001-26012. | 8.0 | 19 |
| 22 | <i>Operando</i> XAS/Raman/MS monitoring of ethanol steam reforming reactionâ€“regeneration cycles. Catalysis Science and Technology, 2018, 8, 6297-6301. | 4.1 | 17 |
| 23 | Multivariate Analysis of Coupled Operando EPR/XANES/EXAFS/UVâ€“Vis/ATRâ€IR Spectroscopy: A New Dimension for Mechanistic Studies of Catalytic Gasâ€Liquid Phase Reactions. Chemistry - A European Journal, 2020, 26, 7395-7404. | 3.3 | 15 |
| 24 | Genesis of active phase in MoW/Al2O3 hydrotreating catalysts monitored by HAADF and in situ QEXAFS combined to MCR-ALS analysis. Applied Catalysis B: Environmental, 2020, 269, 118766. | 20.2 | 13 |
| 25 | First in situ temperature quantification of CoMoS species upon gas sulfidation enabled by new insight on cobalt sulfide formation. Catalysis Today, 2021, 377, 114-126. | 4.4 | 13 |
| 26 | Sulphidation study of a dried Ni/Al<sub>2</sub>O<sub>3</sub> catalyst by time-resolved XAS-MS combined with <i>in situ</i> Raman spectroscopy and multivariate Quick-XAS data analysis. Journal of Lithic Studies, 2017, 3, 33-42. | 0.5 | 10 |
| 27 | X-ray absorption spectroscopy of manganese, cobalt, copper and zinc inorganic salts of tetrathiafulvalene and bis(ethylenedithio)tetrathiafulvalene. Chemistry of Materials, 1992, 4, 484-493. | 6.7 | 9 |
| 28 | Thermal stability of PMMAâ€“LDH nanocomposites: decoupling the physical barrier, radical trapping, and charring contributions using XAS/WAXS/Raman time-resolved experiments. RSC Advances, 2018, 8, 34670-34681. | 3.6 | 9 |
| 29 | Bismuth mobile promoter and cobalt-bismuth nanoparticles in carbon nanotube supported Fischer-Tropsch catalysts with enhanced stability. Journal of Catalysis, 2021, 401, 102-114. | 6.2 | 9 |
| 30 | Quick-EXAFS and Raman monitoring of activation, reaction and deactivation of NiCu catalysts obtained from hydrotalcite-like precursors. Physical Chemistry Chemical Physics, 2020, 22, 18835-18848. | 2.8 | 8 |
| 31 | Study of hydrotreating performance of trimetallic NiMoW/Al2O3 catalysts prepared from mixed MoW Keggin heteropolyanions with various Mo/W ratios. Journal of Catalysis, 2021, 403, 141-159. | 6.2 | 8 |
| 32 | ASAXS study of the influence of sulfidation conditions and organic additives on sulfide slabs multiscale organization. Journal of Catalysis, 2021, 395, 412-424. | 6.2 | 7 |
| 33 | Advanced design of a x-ray absorption spectroscopy setup for measuring transition metals speciation in molten carbonates, hydroxides and hydrogenosulfates. Review of Scientific Instruments, 2022, 93, . | 1.3 | 2 |
| 34 | Natural suspended particulate matter (SPM) versus lab-controlled particles: Comparison of the reactivity and association mode of Zn. Applied Geochemistry, 2022, 140, 105286. | 3.0 | 1 |