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# Publications 2015

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[2017](#) - - [2016](#) - - [2015](#)

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Burbano M., Duttine M., Borkiewicz O., Wattiaux A., Demourgues A., Salanne, M., Groult H., and Dambournet D.

**Anionic Ordering and Thermal Properties of FeF<sub>3</sub>·3H<sub>2</sub>O**

Inorganic Chemistry, 2015, vol. 54, n° 5, p. 9619-9625.

[DOI : 10.1021/acs.inorgchem.5b01705](https://doi.org/10.1021/acs.inorgchem.5b01705)

Fabrichnyi P. B., Afanasov M. I., Mezhuev E. M., Wattiaux A., Labrugère C., and Delmas C.

**Local Environment of 119Sn<sup>4+</sup> Probe Ions in the Bulk and on the Surfaces of Substituted Chromites with Perovskite Type Structure Y<sub>1-x</sub>Ca<sub>x</sub>CrO<sub>3</sub>**

Bulletin of the Russian Academy of Sciences. Physics, 2015, Vol. 79, No. 8, p. 1046-1050.

[DOI : 10.3103/S1062873815080055](https://doi.org/10.3103/S1062873815080055)

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Rouchon Alteration of fossil-bearing shale (Autun Basin, France ; Permian), part I : Characterizing iron

**speciation and its vulnerability to weathering by combined use of Mössbauer spectroscopy, X-ray diffraction, porosimetry and permeability measurements**

Annales de Paléontologie, 2015, 101, p. 75-85

[DOI : 10.1016/j.annpal.2015.01.002](https://doi.org/10.1016/j.annpal.2015.01.002)

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Suard E., Hwang B-J., Wattiaux A. and Delmas C.

**O<sub>3</sub>-Na<sub>x</sub>Mn<sub>1/3</sub>Fe<sub>2/3</sub>O<sub>2</sub> as a positive electrode material for Na-ion batteries : structural evolutions and redox mechanisms upon Na<sup>+</sup>(de)intercalation**

Journal of Materials Chemistry A 2015, n° 3, p. 10976-10989.

[DOI : 10.1039/c4ta06688j](https://doi.org/10.1039/c4ta06688j)

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**Understanding the relationships between structural features and optical/magnetic properties when designing Fe<sub>1-x</sub>Mg<sub>x</sub>MoO<sub>4</sub> as piezochromic compounds**

Inorganic Chemistry 2015, vol. 54, n° 5, p. 2176-2184.

[DOI : 10.1021/ic5025845](https://doi.org/10.1021/ic5025845)

Saad Y., Hidouri M., Alvarez-Serrano I., Lopez M. L., Toulemonde O., Wattiaux A., Ben Amara M.

**Dielectric response of ceramic Sr<sub>2-x</sub>BixTi<sub>2-x</sub>FexO<sub>6</sub> (0 ≤ x ≤ 1.5) perovskites**

Journal of Physics and Chemistry of Solids 2015, vol. 81, p. 40-49.

[DOI : 10.1016/j.jpcs.2015.01.007](https://doi.org/10.1016/j.jpcs.2015.01.007)

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**Pressure sensor via optical detection based on a 1D spin transition coordination polymer**

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H. Ahouari, G. Rousse, Y. Klein, J. N. Chotard, M. T. Sougrati, N. Recham and J. M. Tarascon

**Synthesis, structure and electrochemical properties of metal malonate  $\text{Na}_2\text{M}(\text{H}_2\text{C}_3\text{O}_4)_2 \cdot n\text{H}_2\text{O}$  ( $n=0, 2$ ) compounds and comparison with oxalate  $\text{Na}_2\text{M}_2(\text{C}_2\text{O}_4)_3 \cdot 2\text{H}_2\text{O}$  compounds**

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**Unraveling the Structure of Iron(III) Oxalate Tetrahydrate and Its Reversible Li Insertion Capability**

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R. Amisse, M. T. Sougrati, L. Stievano, C. Davoisne, G. Drazic, B. Budic, R. Dominko and C. Masquelier

**Singular Structural and Electrochemical Properties in Highly Defective  $\text{LiFePO}_4$  Powders**

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**$\text{Na}_2\text{FePO}_4\text{F}$ /multi-walled carbon nanotubes for lithium-ion batteries : Operando Mössbauer study of spray-dried composites**

Solar Energy Materials and Solar Cells, 2015,

[DOI : 10.1016/j.solmat.2015.09.005](https://doi.org/10.1016/j.solmat.2015.09.005)

J. Corps, P. Vaqueiro, A. Aziz, R. Grau-Crespo, W. Kockelmann, J.-C. Jumas and A. V. Powell

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**Synthesis of  $\text{Li}_2\text{FeSiO}_4$ /carbon nano-composites by impregnation method**

Journal of Power Sources, 2015, 284, 574

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