

Sergio Brutti – publication list

International publications: ISI

Database Scopus; impact factor from the Journal of Citation Reports.

1. M.Carboni, J.Manzi, A.R.Armstrong, J.Billaud, S.Brutti, R.Younesi. Analysis of the solid electrolyte interphase on hard carbon electrodes in sodium-ion batteries. *ChemElectroChem* (2019) 10.1002/celec.201801621 **IF 4.446**
2. S.Zilio, J.Manzi, A.Fernicola, A.Corazza, S. Brutti. Gas Release Mitigation in LiFePO₄-Li₄Ti₅O₁₂ Li-ion pouch cells by an H₂-selective getter. *Electrochimica Acta* 294 (2019) 156 **IF 5.116**
3. A.Gentile, D.Giacco, A.De Bonis, R.Teghil, A.G.Marrani, S. Brutti. Synergistic electro-catalysis of Pd/PdO nanoparticles and Cr(III)-doped NiCo₂O₄ nanofibres in aprotic Li-O₂ batteries. *Journal of the Electrochemical Society* 165 (2018) A3605 **IF 3.662**
4. M. Agostini, D-H. Lim, S. Brutti, N. Lindahl, J.H. Ahn, B. Scrosati, A. Matic. Free-standing 3D sponged nanofibre electrodes for ultrahigh-rate energy storage devices. *ACS Applied Materials and Interfaces* 10 (2018) 34140 **IF 8.097**
5. M. Agostini, J.-Y.Hwang, H.M.Kim, P.Bruni, S.Brutti, F.Croce, A.Matic, Y.-K.Sun. Minimizing the electrolyte volume in Li-S batteries: a step forward to high gravimetric energy density. *Advanced Energy Materials* 8 (2018) 1801560 **IF 21.875**
6. M. Agostini, D.-H. Lim, M. Sadd, J.-Y. Hwang, S. Brutti, J. W. Heo, J. H. Ahn, Y. K. Sun, A. Matic. Rational Design of Low Cost and High Energy Lithium Batteries through Tailored Fluorine-free Electrolyte and Nanostructured S/C Composite. *ChemSusChem*. 11 (2018) 113 **IF 7.411**
7. D.Giacco, A.G.Marrani, S.Brutti. Enhancement of the performance in Li-O₂cells of a NiCo₂O₄based porous positive electrode by Cr(III) doping. *Materials Letters*, 224 (2018) 113 **IF 2.687**
8. S.Brutti, L.Farina, F.Trequattrini, O.Palumbo, P.Reale, L.Silvestri, S.Panero, A.Paolone. Extremely pure Mg₂FeH₆ as a negative electrode for lithium batteries. *Energies*, 11 (2018) 1952 **IF 2.676**
9. A.Smaldone, S.Brutti, A. De Bonis, N. Ciarfaglia, A.Santagata, R.Teghil. Iron doped LiCoPO₄ thin films for lithium-ion microbatteries obtained by ns pulsed laser deposition. *Applied Surface Science* 445 (2018) 56 **IF 4.439**

10. Marco Carboni, Andrea Giacomo Marrani, Riccardo Spezia and Sergio Brutti. Degradation of LiTfO/TEGME and LiTfO/DME Electrolytes in Li-O₂ Batteries. *Journal of The Electrochemical Society* 165 (2018) A118-A125 **IF 3.662**
11. S.Tosti, A. Santucci, A. Pietropaolo, S. Brutti, O. Palumbo, F. Trequattrini, A. Paolone. Hydrogen sorption properties of V₈₅Ni₁₅. *International Journal of Hydrogen Energy* 43 (2018) 2817 **IF 4.229**
12. Agostini, M., Brutti, S., Navarra, M.A., Panero, S., Reale, P., Matic, A., Scrosati, B. A high-power and fast charging Li-ion battery with outstanding cycle-life. *Scientific Reports*, 7 (2017) 1104. **IF 4.259**
13. Silvestri, L., Navarra, M.A., Brutti, S., Reale, P. Failure mechanism of NaAlH₄ negative electrodes in lithium cells. *Electrochimica Acta*, 253 (2017) 218-226. **IF 4.798**
14. Giacco, D., Carboni, M., Brutti, S., Marrani, A.G. Noticeable Role of TFSI- Anion in the Carbon Cathode Degradation of Li-O₂ Cells. *ACS Applied Materials and Interfaces*, 9 (2017) 31710-31720. **IF 7.504**
15. Farina, L., Brutti, S., Trequattrini, F., Palumbo, O., Gatto, S., Reale, P., Silvestri, L., Panero, S., Paolone, A. An extensive study of the Mg-Fe-H material obtained by reactive ball milling of MgH₂ and Fe in a molar ratio 3:1. *International Journal of Hydrogen Energy*, 42 (2017) 22333-22341 **IF 3.582**
16. Agostini, M., Matic, A., Panero, S., Croce, F., Gunnella, R., Reale, P., Brutti, S. A mixed mechanochemical-ceramic solid-state synthesis as simple and cost effective route to high-performance LiNi_{0.5}Mn_{1.5}O₄ spinels. *Electrochimica Acta*, 235 (2017) 262-269. **IF 4.798**
17. Brutti, S., Meggiolaro, D., Paolone, A., Reale, P. Magnesium hydride as negative electrode active material in lithium cells: A review. *Materials Today Energy*, 3 (2017) 53-59. **IF unassigned**
18. Brutti, S., Manzi, J., Meggiolaro, D., Vitucci, F.M., Trequattrini, F., Paolone, A., Palumbo, O. Interplay between local structure and transport properties in iron-doped LiCoPO₄ olivines. *Journal of Materials Chemistry A*, 5 (2017) 14020-14030. **IF 8.867**
19. Silvestri, L., Paolone, A., Cirrincione, L., Stallworth, P., Greenbaum, S., Panero, S., Brutti, S., Reale, P. NaAlH₄ nanoconfinement in a mesoporous carbon for application in lithium ion batteries. *Journal of the Electrochemical Society*, 164 (2017) A1120-A1125. **IF 3.259**

20. Agostini, M., Lim, D.H., Sadd, M., Fasciani, C., Navarra, M.A., Panero, S., Brutti, S., Matic, A., Scrosati, B. Stabilizing the Performance of High-Capacity Sulfur Composite Electrodes by a New Gel Polymer Electrolyte Configuration. *ChemSusChem*, 10 (2017) 3490-3496. **IF 7.226**
21. Manzi, J., Brutti, S. Surface chemistry on LiCoPO₄ electrodes in lithium cells: SEI formation and self-discharge. *Electrochimica Acta*, 222 (2016) 1839-1846. **IF 4.798**
22. Carboni, M., Marrani, A.G., Spezia, R., Brutti, S. 1,2-Dimethoxyethane Degradation Thermodynamics in Li-O₂ Redox Environments. *Chemistry - A European Journal*, 22 (2016) 17188-17203. **IF 5.317**
23. Ulissi, U., Zimmermann, J., Brutti, S., Hassoun, J. Investigation of the electrochemical features of carbon-coated TiO₂ anode for application in lithium-ion battery using high voltage LiNi_{0.5}Mn_{1.5}O₄ spinel cathode. *Electrochimica Acta*, 201 (2016) 158-164. **IF 4.798**
24. Agostini, M., Brutti, S., Hassoun, J. High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. *ACS Applied Materials and Interfaces*, 8 (2016) 10850-10857 **IF 7.504**
25. Vitucci, F.M., Paolone, A., Palumbo, O., Greco, G., Lombardo, L., Köntje, M., Latini, A., Panero, S., Brutti, S. High-Temperature Structural Evolution of the Disordered LiMn_{1.5}Ni_{0.5}O₄. *Journal of the American Ceramic Society*, 99 (2016) 1815-1822. **IF 2.841**
26. Meggiolaro, D., Farina, L., Silvestri, L., Panero, S., Brutti, S., Reale, P. Lightweight borohydrides electro-activity in lithium cells. *Energies*, 9 (2016) 238. **IF 2.262**
27. Sgambetterra, M., Brutti, S., Allodi, V., Mariotto, G., Panero, S., Navarra, M.A. Critical filler concentration in sulfated titania-added nafion™ membranes for fuel cell applications. *Energies*, 9 (2016) 272. **IF 2.262**
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30. Cattaneo, A.S., Ferrara, C., Villa, D.C., Angioni, S., Milanese, C., Capsoni, D., Grandi, S., Mustarelli, P., Allodi, V., Mariotto, G., Brutti, S., Quartarone, E. SBA-15 mesoporous silica highly functionalized

- with propylsulfonic pendants: A thorough physico-chemical characterization. *Microporous and Mesoporous Materials*, 219 (2016) 219-229 **IF 3.615**
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33. Manzi, J., Curcio, M., Brutti, S. Structural and morphological tuning of LiCoPO₄ materials synthesized by solvo-thermal methods for Li-cell applications. *Nanomaterials*, 5 (2015) 2212-2230. **IF 2.690**
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36. Carboni, M., Brutti, S., Marrani, A.G. Surface Reactivity of a Carbonaceous Cathode in a Lithium Triflate/Ether Electrolyte-Based Li-O₂ Cell. *ACS Applied Materials and Interfaces*, 7 (2015) 21751-21762. **IF 7.145**
37. Silvestri, L., Forgia, S., Farina, L., Meggiolaro, D., Panero, S., LaBarbera, A., Brutti, S., Reale, P. Lithium Alanates as Negative Electrodes in Lithium-Ion Batteries. *ChemElectroChem*, 2 (2015) 877-886. **IF 3.506**
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39. Meggiolaro, D., Gigli, G., Paolone, A., Reale, P., Doublet, M.L., Brutti, S. Origin of the Voltage Hysteresis of MgH₂ Electrodes in Lithium Batteries. *Journal of Physical Chemistry C*, 119 (2015) 17044-17052. **IF 4.509**

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42. Palumbo, O., Brutti, S., Trequattrini, F., Sarker, S., Dolan, M., Chandra, D., Paolone, A. Temperature dependence of the elastic modulus of (Ni_{0.6}Nb_{0.4})_{1-x}Zr_x membranes: Effects of thermal treatments and hydrogenation. *Energies*, 8 (2015) 3944-3954. **IF 2.077**
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45. Vitucci, F.M., Palumbo, O., Paolone, A., Cantelli, R., Brutti, S., Panero, S. Dynamics of Mn³⁺ in off-stoichiometric LiMn_{1.5}Ni_{0.5}O₄. *Journal of Alloys and Compounds*, 604 (2014) 83-86. **IF 2.999**
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54. Gentili, V., Brutti, S., Hardwick, L.J., Armstrong, A.R., Panero, S., Bruce, P.G. Lithium insertion into anatase nanotubes. *Chemistry of Materials*, 24 (2012) 4468-4476 **IF 8.238**
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75. S. Brutti, D. Nguyen-Manh, D.G. Pettifor. Lattice stability of Ca, Sr and Yb disilicides *INTERMETALLICS*, 14, 1472-1486 (2006) **IF 1.943**
76. G. Balducci, S. Brutti, A. Ciccioni, G. Gigli, G. Trionfetti, A. Palenzona and M. Pani. Vapor pressures and thermodynamic properties of the strontium silicides *INTERMETALLICS*, 14, 578-583 (2006) **IF 1.943**
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89. Sergio Brutti, Andrea Ciccioi, Giovanni Balducci, Guido Gigli, Pietro Manfrinetti and Myrta Napolitano. Thermodynamic stabilities of intermediate phases in the Ca-Si system *J ALLOY COMPD*, 317-318, 525 - 531 (2001) **IF 0.953**

List of Publications (international): not ISI

90. Sergio Brutti, Stefania Panero, Annalisa Paolone, Sara Gatto, Daniele Meggiolaro, Francesco M. Vitucci, Jessica Manzi, David Munaò, Laura Silvestri, Luca Farina, and Priscilla Reale. Hydrides as High Capacity Anodes in Lithium Cells: An Italian “Futuro in Ricerca di Base FIRB-2010” Project. *Challenges* 8 (2017) 8

List of Publications: Conference Proceedings

91. Luca Farina, David Munao, Laura Silvestri, Stefania Panero, Daniele Meggiolaro, Sergio Brutti, Aurelio La Barbera and Priscilla Reale. Electrochemical activity of lightweight borohydrides in lithium cells. Proceedings of the 2015 IEEE 15th International Conference on Environmental and Electrical Engineering CFP1551I-CDR ISBN 978-1-4799-7992-9 (2015) doi: 10.1109/EEEIC.2015.7165450 pages 1827-1832
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