

Frédéric Boschini

List of Publications by Year in descending order

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75
papers

1,701
citations

236925

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315739

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times ranked

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#	ARTICLE	IF	CITATIONS
1	High temperature X-ray diffraction study of the formation of Na ₂ Ti ₃ O ₇ from a mixture of sodium carbonate and titanium oxide. <i>Journal of Energy Chemistry</i> , 2022, 65, 210-218.	12.9	11
2	From amorphous red phosphorus to black phosphorus crystal: An optimization, controllable and highest yield synthesis process. <i>Journal of Crystal Growth</i> , 2022, 577, 126408.	1.5	5
3	Structural, optical, electric and dielectric characterization of a NaCu _{0.2} Fe _{0.3} Mn _{0.5} O ₂ compound. <i>RSC Advances</i> , 2022, 12, 1563-1570.	3.6	14
4	Deep Eutectic Solvents as Nonflammable Electrolytes for Durable Sodium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	12
5	Electrical properties and conduction mechanism in sodiumcobalt orthophosphate compounds. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157880.	5.5	1
6	Enhancing Performances of Polydopamine as Cathode for Lithium- and Potassium-Ion Batteries by Simple Grafting of Sulfonate Groups. <i>Batteries and Supercaps</i> , 2021, 4, 374-379.	4.7	9
7	Improving the electrochemical performances of organo-palladium (II) complex as promising anode material for Li-ion batteries: Effect of double emulsion preparation. <i>Journal of Power Sources</i> , 2021, 496, 229827.	7.8	1
8	Electrochemical mechanism and effects of Fe doping and grinding process on the microstructural and electrochemical properties of Na ₂ Co _{1-x} Fe _x SiO ₄ cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021, 391, 138935.	5.2	3
9	Exploring organo-palladium(II) complexes as novel organometallic materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2020, 337, 135659.	5.2	6
10	Influence of synthesis methods with low annealing temperature on the structural and magnetic properties of CoFe ₂ O ₄ nanopowders for permanent magnet application. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166416.	2.3	37
11	Spray-dried K ₃ V(PO ₄) ₂ /C composites as novel cathode materials for K-ion batteries with superior electrochemical performance. <i>Journal of Power Sources</i> , 2020, 480, 229057.	7.8	8
12	Efficient production of few-layer black phosphorus by liquid-phase exfoliation. <i>Royal Society Open Science</i> , 2020, 7, 201210.	2.4	21
13	New N-methylimidazolium hexachloroantimonate: Synthesis, crystal structure, Hirshfeld surface and catalytic activity of in cyclopropanation of styrene. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108291.	3.9	3
14	A study of magnetic and magnetocaloric properties of 0.95 (La _{0.45} Nd _{0.25} Sr _{0.3} MnO ₃)/0.05CuO composites prepared by spray drying. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108129.	3.9	3
15	Laser cladding of TiC reinforced 316L stainless steel composites: Feedstock powder preparation and microstructural evaluation. <i>Powder Technology</i> , 2020, 375, 384-396.	4.2	34
16	The dielectric relaxation behavior induced by sodium migration in the Na ₂ CoSiO ₄ structure within a three-dimensional Co-O-Si framework. <i>RSC Advances</i> , 2020, 10, 27456-27473.	3.6	8
17	Aqueous processing of flexible, free-standing Li ₄ Ti ₅ O ₁₂ electrodes for Li-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 397, 125508.	12.7	12
18	Microstructural and Thermal Characterization of 316L/WC Composite Coatings Obtained by Laser Cladding. <i>Advanced Engineering Materials</i> , 2020, 22, 2000291.	3.5	18

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19	Optimization of the compositions of polyanionic sodium-ion battery cathode $\text{NaFe}_{2-x}\text{V}_x(\text{PO}_4)(\text{SO}_4)_2$. <i>Journal of Power Sources</i> , 2020, 469, 228417.	7.8	28
20	Synthesis and characterization of magnetic perovskites $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$: Green catalyst for oxidation of olefins in aqueous medium. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107892.	3.9	9
21	Recovery of Nano-Structured Silicon from End-of-Life Photovoltaic Wafers with Value-Added Applications in Lithium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5868-5879.	6.7	38
22	Influence of the Cyclic versus Linear Carbonate Segments in the Properties and Performance of CO_2 -Sourced Polymer Electrolytes for Lithium Batteries. <i>ACS Applied Polymer Materials</i> , 2020, 2, 922-931.	4.4	36
23	Black phosphorus-based polyvinylidene fluoride nanocomposites: Synthesis, processing and characterization. <i>Composites Part B: Engineering</i> , 2019, 175, 107165.	12.0	32
24	Structural, vibrational spectroscopic, and electrical conduction mechanisms of NaCoPO_4 compound. <i>Ionics</i> , 2019, 25, 1091-1103.	2.4	9
25	Study of the Structural and Magnetic Properties of Co-Substituted $\text{Ba}_2\text{Mg}_2\text{Fe}_{12}\text{O}_{22}$ Hexaferrites Synthesized by Sonochemical Co-Precipitation. <i>Materials</i> , 2019, 12, 1414.	2.9	11
26	Sodium iron sulfate alluaudite solid solution for Na-ion batteries: moving towards stoichiometric $\text{Na}_2\text{Fe}_2(\text{SO}_4)_3$. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8226-8233.	10.3	20
27	CO_2 -sourced polycarbonates as solid electrolytes for room temperature operating lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9844-9853.	10.3	29
28	Electrical and electrochemical properties of $\text{Li}_2\text{M}(\text{WO}_4)_2$ ($\text{M} = \text{Tj, ET, Q, O, O, rg, BT, Overlock, 10 T}$)	3.6	11
29	Optical and AC conductivity studies on $\text{Li}_{2-x}\text{R}_x\text{MoO}_4$ ($x = 0, 0.5, 1$) compounds. <i>Journal of Alloys and Compounds</i> , 2019, 788, 522-532.	5.5	17
30	An easy route to synthesize high-quality black phosphorus from amorphous red phosphorus. <i>Materials Letters</i> , 2019, 236, 56-59.	2.6	36
31	$\text{Na}_{1.25}\text{Ni}_{1.25}\text{Fe}_{1.75}(\text{PO}_4)_3$ nanoparticles as a janus electrode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2018, 388, 57-64.	7.8	7
32	Spray-drying as a tool to disperse conductive carbon inside $\text{Na}_2\text{FePO}_4\text{F}$ particles by addition of carbon black or carbon nanotubes to the precursor solution. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 103-112.	2.5	24
33	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ powders by spray-drying: influence of the solution concentration and particle size on the electrochemical properties. <i>Journal of Physics: Conference Series</i> , 2018, 1081, 012001.	0.4	2
34	Facile solvothermal synthesis of $\text{Na}_{1.5}\text{Mn}_{1.5}\text{Fe}_{1.5}(\text{PO}_4)_3$: Electrochemical study as a dual electrode material for lithium-ion batteries. <i>Solid State Ionics</i> , 2018, 326, 18-26.	2.7	1
35	Electrochemical Mechanism and Effect of Carbon Nanotubes on the Electrochemical Performance of $\text{Fe}_{1.19}(\text{PO}_4)(\text{OH})_{0.57}(\text{H}_2\text{O})_{0.43}$ Cathode Material for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34202-34211.	8.0	13
36	Spray-Drying of Electrode Materials for Lithium- and Sodium-Ion Batteries. <i>Materials</i> , 2018, 11, 1076.	2.9	32

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37	Tunable maximum energy product in CoFe ₂ O ₄ nanopowder for permanent magnet application. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 467, 129-134.	2.3	24
38	Sodium vanadium (III) fluorophosphate/carbon nanotubes composite (NVPF/CNT) prepared by spray-drying: good electrochemical performance thanks to well-dispersed CNT network within NVPF particles. <i>Electrochimica Acta</i> , 2017, 228, 319-324.	5.2	53
39	Experimental and theoretical investigation of SrFe ₁₂ O ₁₉ nanopowder for permanent magnet application. <i>Ceramics International</i> , 2017, 43, 15999-16006.	4.8	22
40	Hydrothermal synthesis in presence of carbon black: Particle-size reduction of iron hydroxyl phosphate hydrate for Li-ion battery. <i>Electrochimica Acta</i> , 2017, 250, 49-58.	5.2	14
41	Hydrothermal self-assembly of sodium manganese iron phosphate particles: Growth mechanism and electrochemical performance in lithium-ion battery. <i>Solid State Ionics</i> , 2017, 312, 88-96.	2.7	2
42	One-step hydrothermal synthesis and electrochemical performance of sodium-manganese-iron phosphate as cathode material for Li-ion batteries. <i>Journal of Solid State Chemistry</i> , 2017, 253, 389-397.	2.9	14
43	Effect of relative air humidity on the flowability of lactose powders. <i>Journal of Drug Delivery Science and Technology</i> , 2016, 35, 207-212.	3.0	30
44	Towards a large scale aqueous sol-gel synthesis of doped TiO ₂ : Study of various metallic dopings for the photocatalytic degradation of p-nitrophenol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 189-202.	3.9	54
45	Na ₂ FePO ₄ F/multi-walled carbon nanotubes for lithium-ion batteries: Operando Mössbauer study of spray-dried composites. <i>Solar Energy Materials and Solar Cells</i> , 2016, 148, 67-72.	6.2	27
46	Rheological behavior of Î ² -Ti and NiTi powders produced by atomization for SLM production of open porous orthopedic implants. <i>Powder Technology</i> , 2015, 283, 199-209.	4.2	82
47	Interest of cyclodextrins in spray-dried microparticles formulation for sustained pulmonary delivery of budesonide. <i>International Journal of Pharmaceutics</i> , 2015, 495, 869-878.	5.2	41
48	Linking flowability and granulometry of lactose powders. <i>International Journal of Pharmaceutics</i> , 2015, 494, 312-320.	5.2	36
49	Microwave sintering of Ge-doped In ₂ O ₃ thermoelectric ceramics prepared by slip casting process. <i>Journal of the European Ceramic Society</i> , 2015, 35, 145-151.	5.7	21
50	Nuclear probes for battery materials investigations: Mössbauer spectroscopy, nuclear scattering, and neutron scattering. , 2014, , .		0
51	YBa ₂ Cu ₃ O _{7-δ} thick films for magnetic shielding: Electrophoretic deposition from butanol-based suspension. <i>Materials Letters</i> , 2014, 119, 154-156.	2.6	7
52	Effect of the RE (RE=Eu, Er) doping on the structural and textural properties of mesoporous TiO ₂ thin films obtained by evaporation induced self-assembly method. <i>Thin Solid Films</i> , 2014, 558, 140-148.	1.8	16
53	Spray-drying synthesis of Na ₂ FePO ₄ F/carbon powders for lithium-ion batteries. <i>Materials Letters</i> , 2014, 130, 263-266.	2.6	28
54	Mullite Plasma Spraying for In Situ Repair of Cracks in Mullite Refractories: Simultaneous Optimization of Porosity and Thickness by Statistical Design of Experiments. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 1133-1139.	3.1	2

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55	Effect of freeze-drying and self-ignition process on the microstructural and electrochemical properties of $\text{Li}_4\text{Ti}_5\text{O}_{12}$. <i>Materials Research Bulletin</i> , 2013, 48, 4641-4646.	5.2	9
56	Flow abilities of powders and granular materials evidenced from dynamical tap density measurement. <i>Powder Technology</i> , 2013, 235, 842-852.	4.2	53
57	Cascade of granular flows for characterizing segregation. <i>Powder Technology</i> , 2013, 234, 32-36.	4.2	8
58	Synthesis of $\text{In}_2\text{xGe}_x\text{O}_3$ nanopowders for thermoelectric applications. <i>Journal of Materials Research</i> , 2012, 27, 500-505.	2.6	3
59	Measuring the flowing properties of powders and grains. <i>Powder Technology</i> , 2012, 224, 19-27.	4.2	258
60	Genetically engineered polypeptides as a new tool for inorganic nano-particles separation in water based media. <i>Journal of Materials Chemistry</i> , 2011, 21, 13841.	6.7	11
61	Preparation of Spherical Submicronic Barium Zirconate particles in Highly Basic Solution below 100°C . <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 062007.	0.6	1
62	van der Waals cohesion in nonsmooth contact dynamics: application to powder mixtures. <i>Canadian Journal of Physics</i> , 2011, 89, 779-785.	1.1	2
63	Preparation of fire-resistant poly(styrene-co-acrylonitrile) foams using supercritical CO_2 technology. <i>Journal of Materials Chemistry</i> , 2010, 20, 1567.	6.7	17
64	IMAGE ANALYSIS OF PEARLITE SPHEROIDIZATION BASED ON THE MORPHOLOGICAL CHARACTERIZATION OF CEMENTITE PARTICLES. <i>Image Analysis and Stereology</i> , 2010, 29, 91.	0.9	11
65	Rapid synthesis of submicron crystalline barium zirconate BaZrO_3 by precipitation in aqueous basic solution below 100°C . <i>Journal of the European Ceramic Society</i> , 2009, 29, 1457-1462.	5.7	38
66	Mullite coatings on ceramic substrates: Stabilisation of $\text{Al}_2\text{O}_3\text{-SiO}_2$ suspensions for spray drying of composite granules suitable for reactive plasma spraying. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2169-2175.	5.7	30
67	Rheological behaviour of BaZrO_3 suspensions in non-aqueous media. <i>Ceramics International</i> , 2009, 35, 1007-1013.	4.8	19
68	Slip casting of barium zirconate aqueous concentrated suspensions. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1591-1598.	5.7	20
69	Influence of the shaping effect on hardness homogeneity by Vickers indentation analysis. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3191-3196.	5.7	2
70	Colloidal stability of aqueous suspensions of barium zirconate. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3195-3201.	5.7	28
71	Optimization of BaZrO_3 sintering by control of the initial powder size distribution; a factorial design statistical analysis. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3593-3604.	5.7	34
72	Preparation of nanosized barium zirconate powder by thermal decomposition of urea in an aqueous solution containing barium and zirconium, and by calcination of the precipitate. <i>Journal of the European Ceramic Society</i> , 2003, 23, 3035-3042.	5.7	76

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73	Preparation of BaZrO ₃ powders by a spray-drying process. Journal of Materials Research, 2003, 18, 1325-1332.	2.6	10
74	<title>Single-domain HTC superconducting materials synthesis: BaZrO ₃ substrates as a tool for optimized systems</title>. , 2001, 4412, 33.		0
75	Importance of soft solution processing for advanced BaZrO ₃ materials. Solid State Sciences, 2001, 3, 1185-1187.	0.7	35