

Frédéric Boschini

List of Publications by Year in descending order

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75
papers

1,701
citations

236925

25
h-index

315739

38
g-index

76
all docs

76
docs citations

76
times ranked

2099
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring the flowing properties of powders and grains. Powder Technology, 2012, 224, 19-27.	4.2	258
2	Rheological behavior of Ti and NiTi powders produced by atomization for SLM production of open porous orthopedic implants. Powder Technology, 2015, 283, 199-209.	4.2	82
3	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. Journal of the European Ceramic Society, 2003, 23, 3035-3042.	5.7	76
4	Towards a large scale aqueous sol-gel synthesis of doped TiO_2 : Study of various metallic dopings for the photocatalytic degradation of p-nitrophenol. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 189-202.	3.9	54
5	Flow abilities of powders and granular materials evidenced from dynamical tap density measurement. Powder Technology, 2013, 235, 842-852.	4.2	53
6	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. Electrochimica Acta, 2017, 228, 319-324.	5.2	53
7	Interest of cyclodextrins in spray-dried microparticles formulation for sustained pulmonary delivery of budesonide. International Journal of Pharmaceutics, 2015, 495, 869-878.	5.2	41
8	Rapid synthesis of submicron crystalline barium zirconate BaZrO_3 by precipitation in aqueous basic solution below 100°C . Journal of the European Ceramic Society, 2009, 29, 1457-1462.	5.7	38
9	Recovery of Nano-Structured Silicon from End-of-Life Photovoltaic Wafers with Value-Added Applications in Lithium-Ion Battery. ACS Sustainable Chemistry and Engineering, 2020, 8, 5868-5879.	6.7	38
10	Influence of synthesis methods with low annealing temperature on the structural and magnetic properties of CoFe_2O_4 nanopowders for permanent magnet application. Journal of Magnetism and Magnetic Materials, 2020, 500, 166416.	2.3	37
11	Linking flowability and granulometry of lactose powders. International Journal of Pharmaceutics, 2015, 494, 312-320.	5.2	36
12	An easy route to synthesize high-quality black phosphorus from amorphous red phosphorus. Materials Letters, 2019, 236, 56-59.	2.6	36
13	Influence of the Cyclic versus Linear Carbonate Segments in the Properties and Performance of CO_2 -Sourced Polymer Electrolytes for Lithium Batteries. ACS Applied Polymer Materials, 2020, 2, 922-931.	4.4	36
14	Importance of soft solution processing for advanced BaZrO_3 materials. Solid State Sciences, 2001, 3, 1185-1187.	0.7	35
15	Optimization of BaZrO_3 sintering by control of the initial powder size distribution; a factorial design statistical analysis. Journal of the European Ceramic Society, 2005, 25, 3593-3604.	5.7	34
16	Laser cladding of TiC reinforced 316L stainless steel composites: Feedstock powder preparation and microstructural evaluation. Powder Technology, 2020, 375, 384-396.	4.2	34
17	Spray-Drying of Electrode Materials for Lithium- and Sodium-Ion Batteries. Materials, 2018, 11, 1076.	2.9	32
18	Black phosphorus-based polyvinylidene fluoride nanocomposites: Synthesis, processing and characterization. Composites Part B: Engineering, 2019, 175, 107165.	12.0	32

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19	Mullite coatings on ceramic substrates: Stabilisation of Al ₂ O ₃ -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
20	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
21	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
22	Colloidal stability of aqueous suspensions of barium zirconate. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3195-3201.	5.7	28
23	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
24	Optimization of the compositions of polyanionic sodium-ion battery cathode NaFe _{2-x} V _x (PO ₄)(SO ₄) ₂ . <i>Journal of Power Sources</i> , 2020, 469, 228417.	7.8	28
25	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
26	Spray-drying as a tool to disperse conductive carbon inside Na ₂ FePO ₄ 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
27	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
28	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
29	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
30	Efficient production of few-layer black phosphorus by liquid-phase exfoliation. <i>Royal Society Open Science</i> , 2020, 7, 201210.	2.4	21
31	Slip casting of barium zirconate aqueous concentrated suspensions. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1591-1598.	5.7	20
32	Sodium iron sulfate alluaudite solid solution for Na-ion batteries: moving towards stoichiometric Na ₂ Fe ₂ (SO ₄) ₃ . <i>Journal of Materials Chemistry A</i> , 2019, 7, 8226-8233.	10.3	20
33	Rheological behaviour of BaZrO ₃ suspensions in non-aqueous media. <i>Ceramics International</i> , 2009, 35, 1007-1013.	4.8	19
34	Microstructural and Thermal Characterization of 316L-WC Composite Coatings Obtained by Laser Cladding. <i>Advanced Engineering Materials</i> , 2020, 22, 2000291.	3.5	18
35	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
36	Optical and AC conductivity studies on Li _{2-x} R _b MoO ₄ (x = 0, 0.5, 1) compounds. <i>Journal of Alloys and Compounds</i> , 2019, 788, 522-532.	5.5	17

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37	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
38	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
39	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
40	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
41	Electrochemical Mechanism and Effect of Carbon Nanotubes on the Electrochemical Performance of Fe _{1.19} (PO ₄) ₄ (OH) _{0.57} (H ₂ O) _{0.43} Cathode Material for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34202-34211.	8.0	13
42	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
43	Deep Eutectic Solvents as Nonflammable Electrolytes for Durable Sodium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	12
44	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
45	Study of the Structural and Magnetic Properties of Co-Substituted Ba ₂ Mg ₂ Fe ₁₂ O ₂₂ Hexaferrites Synthesized by Sonochemical Co-Precipitation. <i>Materials</i> , 2019, 12, 1414.	2.9	11
46	Electrical and electrochemical properties of Li ₂ M(WO ₄) ₂ (M =) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	11
47	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
48	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
49	Preparation of BaZrO ₃ powders by a spray-drying process. <i>Journal of Materials Research</i> , 2003, 18, 1325-1332.	2.6	10
50	Effect of freeze-drying and self-ignition process on the microstructural and electrochemical properties of Li ₄ Ti ₅ O ₁₂ . <i>Materials Research Bulletin</i> , 2013, 48, 4641-4646.	5.2	9
51	Structural, vibrational spectroscopic, and electrical conduction mechanisms of δ -NaCoPO ₄ compound. <i>Ionics</i> , 2019, 25, 1091-1103.	2.4	9
52	Synthesis and characterization of magnetic perovskites La _{1-x} Sr _x MnO ₃ : Green catalyst for oxidation of olefins in aqueous medium. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107892.	3.9	9
53	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
54	Cascade of granular flows for characterizing segregation. <i>Powder Technology</i> , 2013, 234, 32-36.	4.2	8

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55	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
56	The dielectric relaxation behavior induced by sodium migration in the Na ₂ CoSiO ₄ structure within a three-dimensional CoO-Si framework. <i>RSC Advances</i> , 2020, 10, 27456-27473.	3.6	8
57	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
58	Na _{1.25} Ni _{1.25} Fe _{1.75} (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
59	Exploring organo-palladium(II) complexes as novel organometallic materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2020, 337, 135659.	5.2	6
60	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
61	Synthesis of In ₂ xGe _x O ₃ nanopowders for thermoelectric applications. <i>Journal of Materials Research</i> , 2012, 27, 500-505.	2.6	3
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	Li ₄ Ti ₅ 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
70	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
71	Facile solvothermal synthesis of Na _{1.5} - δ Mn _{1.5} Fe _{1.5} (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
72	Electrical properties and conduction mechanism in sodiumcobalt orthophosphate compounds. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157880.	5.5	1

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73	Improving the electrochemical performances of organo-palladium (II) complex as promising anode material for Li-ion batteries: Effect of double emulsion preparation. Journal of Power Sources, 2021, 496, 229827.	7.8	1
74	<title>Single-domain HTC superconducting materials synthesis: BaZrO ₃ substrates as a tool for optimized systems</title>. , 2001, 4412, 33.		0
75	Nuclear probes for battery materials investigations: Mössbauer spectroscopy, nuclear scattering, and neutron scattering. , 2014, , .		0