

Joao Coelho

List of Publications by Year in descending order

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42
papers

4,157
citations

257101

24
h-index

344852

36
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all docs

43
docs citations

43
times ranked

7316
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014, 13, 624-630.	13.3	1,958
2	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017, 356, 69-73.	6.0	391
3	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , 2019, 4, 560-567.	19.8	281
4	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2020, 30, 2000842.	7.8	276
5	Quantifying the factors limiting rate performance in battery electrodes. <i>Nature Communications</i> , 2019, 10, 1933.	5.8	185
6	Effect of Percolation on the Capacitance of Supercapacitor Electrodes Prepared from Composites of Manganese Dioxide Nanoplatelets and Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 9567-9579.	7.3	89
7	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 2966-2974.	2.5	75
8	Two-dimensional material inks. <i>Nature Reviews Materials</i> , 2022, 7, 717-735.	23.3	71
9	Structural studies of lead lithium borate glasses doped with silver oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 392-398.	2.0	68
10	Low-temperature synthesis and investigation into the formation mechanism of high quality Ni-Fe layered double hydroxides hexagonal platelets. <i>Scientific Reports</i> , 2018, 8, 4179.	1.6	56
11	Laser-Induced Graphene on Paper toward Efficient Fabrication of Flexible, Planar Electrodes for Electrochemical Sensing. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101502.	1.9	48
12	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. <i>Electrochimica Acta</i> , 2015, 174, 696-705.	2.6	47
13	Synthesis and characterization of HAp nanorods from a cationic surfactant template method. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2543-2549.	1.7	46
14	A study of the charge storage properties of a MoSe ₂ nanoplatelets/SWCNTs electrode in a Li-ion based electrolyte. <i>Electrochimica Acta</i> , 2016, 192, 1-7.	2.6	44
15	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901359.	10.2	43
16	Samarium doped glass-reinforced hydroxyapatite with enhanced osteoblastic performance and antibacterial properties for bone tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5872-5881.	2.9	40
17	Liquid Exfoliated SnP ₃ Nanosheets for Very High Areal Capacity Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2002364.	10.2	40
18	Structural studies of lithium boro tellurite glasses doped with praseodymium and samarium oxides. <i>Materials Research Bulletin</i> , 2012, 47, 3489-3494.	2.7	39

#	ARTICLE	IF	CITATIONS
19	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. <i>Sustainable Energy and Fuels</i> , 2017, 1, 207-216.	2.5	38
20	Lasing transition ($4F_3/2 \rightarrow 4I_{11}/2$) at $1.06 \mu\text{m}$ in neodymium oxide doped lithium boro tellurite glass. <i>Physica B: Condensed Matter</i> , 2010, 405, 4696-4701.	1.3	34
21	Luminescence and decay trends for NIR transition ($4I_{13}/2 \rightarrow 4I_{15}/2$) at $1.5 \mu\text{m}$ in Er^{3+} -doped LBT glasses. <i>Optical Materials</i> , 2011, 33, 1167-1173.	1.7	29
22	Manganese oxide nanosheets and a 2D hybrid of graphene/manganese oxide nanosheets synthesized by liquid-phase exfoliation. <i>2D Materials</i> , 2015, 2, 025005.	2.0	28
23	Atomic scale dynamics of a solid state chemical reaction directly determined by annular dark-field electron microscopy. <i>Scientific Reports</i> , 2014, 4, 7555.	1.6	26
24	An investigation of the energy storage properties of a 2D MoO_3 -SWCNTs composite films. <i>2D Materials</i> , 2017, 4, 015005.	2.0	20
25	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. <i>Scientific Reports</i> , 2017, 7, 7614.	1.6	17
26	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. <i>ACS Applied Energy Materials</i> , 2020, 3, 10154-10163.	2.5	16
27	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. <i>Journal of Power Sources</i> , 2020, 468, 228220.	4.0	16
28	An outlook on printed microsupercapacitors: Technology status, remaining challenges, and opportunities. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 69-75.	2.5	14
29	Postsynthetic treatment of nickel/iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	12
30	Solvent engineered synthesis of layered SnO for high-performance anodes. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	11
31	Development and Characterization of Ag_2O -Doped ZnLB Glasses and Biological Assessment of Ag_2O - ZnLB -Hydroxyapatite Composites. <i>Journal of the American Ceramic Society</i> , 2019, 85, 2732-2740.	1.9	10
32	Structural and time resolved emission spectra of Er^{3+} : Silver lead borate glass. <i>Chemical Physics Letters</i> , 2011, 512, 70-75.	1.2	9
33	EELS probing of lithium based 2-D battery compounds processed by liquid phase exfoliation. <i>Nano Energy</i> , 2016, 30, 18-26.	8.2	8
34	Development and Characterization of Lanthanides Doped Hydroxyapatite Composites for Bone Tissue Application. , 2013, , 87-115.		8
35	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. <i>Nanomaterials</i> , 2021, 11, 1706.	1.9	7
36	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	3

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37	Physical characterization studies on silver oxide doped PbO- Li ₂ O -B ₂ O ₃ glasses. , 2011, , .		0
38	Luminescence and Time-Resolved Emission Spectra of Nd ³⁺ and Er ³⁺ : Silver Zinc Borate Glasses. Solid State Phenomena, 2013, 207, 37-53.	0.3	0
39	Microstructural Characterization of Manganese Oxides Supercapacitors based on Liquid-phase Exfoliated for Energy Storage Applications. Microscopy and Microanalysis, 2013, 19, 1530-1531.	0.2	0
40	EELS Probing of Lithium Based 2-D Battery Compounds Processed by Liquid Phase Exfoliation. Microscopy and Microanalysis, 2017, 23, 1984-1985.	0.2	0
41	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. Microscopy and Microanalysis, 2018, 24, 1566-1567.	0.2	0
42	All-MXene 3D Aerosol-Jet Printed Microsupercapacitors. ECS Meeting Abstracts, 2020, MA2020-02, 3494-3494.	0.0	0