Joao Coelho

List of Publications by Year in descending order

42 papers	4,157 citations	257450 24 h-index	345221 36 g-index
43 all docs	43 docs citations	43 times ranked	7316 citing authors

#	Article	IF	Citations
1	Two-dimensional material inks. Nature Reviews Materials, 2022, 7, 717-735.	48.7	71
2	Liquid Exfoliated SnP₃ Nanosheets for Very High Areal Capacity Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2002364.	19.5	40
3	Solvent engineered synthesis of layered SnO for high-performance anodes. Npj 2D Materials and Applications, 2021, 5, .	7.9	11
4	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. Nanomaterials, 2021, 11, 1706.	4.1	7
5	Postsynthetic treatment of nickelâ€“iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. Npj 2D Materials and Applications, 2021, 5, .	7.9	12
6	Laserâ€Induced Graphene on Paper toward Efficient Fabrication of Flexible, Planar Electrodes for Electrochemical Sensing. Advanced Materials Interfaces, 2021, 8, 2101502.	3.7	48
7	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. ACS Applied Energy Materials, 2020, 3, 10154-10163.	5.1	16
8	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. ACS Applied Energy Materials, 2020, 3, 2966-2974.	5.1	75
9	3D MXene Architectures for Efficient Energy Storage and Conversion. Advanced Functional Materials, 2020, 30, 2000842.	14.9	276
10	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. Journal of Power Sources, 2020, 468, 228220.	7.8	16
11	An outlook on printed microsupercapacitors: Technology status, remaining challenges, and opportunities. Current Opinion in Electrochemistry, 2020, 21, 69-75.	4.8	14
12	All-MXene 3D Aerosol-Jet Printed Microsupercapacitors. ECS Meeting Abstracts, 2020, MA2020-02, 3494-3494.	0.0	0
13	Quantifying the Tradeâ€Off between Absolute Capacity and Rate Performance in Battery Electrodes. Advanced Energy Materials, 2019, 9, 1901359.	19.5	43
14	High areal capacity battery electrodes enabled by segregated nanotube networks. Nature Energy, 2019, 4, 560-567.	39.5	281
15	Quantifying the factors limiting rateÂperformance in battery electrodes. Nature Communications, 2019, 10, 1933.	12.8	185
16	Low-temperature synthesis and investigation into the formation mechanism of high quality Ni-Fe layered double hydroxides hexagonal platelets. Scientific Reports, 2018, 8, 4179.	3.3	56
17	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. Microscopy and Microanalysis, 2018, 24, 1566-1567.	0.4	0
18	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. Science, 2017, 356, 69-73.	12.6	391

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19	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. Sustainable Energy and Fuels, 2017, 1, 207-216.	4.9	38
20	EELS Probing of Lithium Based 2-D Battery Compounds Processed by Liquid Phase Exfoliation. Microscopy and Microanalysis, 2017, 23, 1984-1985.	0.4	0
21	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. Scientific Reports, 2017, 7, 7614.	3.3	17
22	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. Npj 2D Materials and Applications, 2017, 1, .	7.9	3
23	An investigation of the energy storage properties of a 2D Î± -MoO ₃ -SWCNTs composite films. 2D Materials, 2017, 4, 015005.	4.4	20
24	EELS probing of lithium based 2-D battery compounds processed by liquid phase exfoliation. Nano Energy, 2016, 30, 18-26.	16.0	8
25	A study of the charge storage properties of a MoSe2 nanoplatelets/SWCNTs electrode in a Li-ion based electrolyte. Electrochimica Acta, 2016, 192, 1-7.	5.2	44
26	Manganese oxide nanosheets and a 2D hybrid of grapheneâ€“manganese oxide nanosheets synthesized by liquid-phase exfoliation. 2D Materials, 2015, 2, 025005.	4.4	28
27	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. Electrochimica Acta, 2015, 174, 696-705.	5.2	47
28	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. Nature Materials, 2014, 13, 624-630.	27.5	1,958
29	Samarium doped glass-reinforced hydroxyapatite with enhanced osteoblastic performance and antibacterial properties for bone tissue regeneration. Journal of Materials Chemistry B, 2014, 2, 5872-5881.	5.8	40
30	Effect of Percolation on the Capacitance of Supercapacitor Electrodes Prepared from Composites of Manganese Dioxide Nanoplatelets and Carbon Nanotubes. ACS Nano, 2014, 8, 9567-9579.	14.6	89
31	Atomic scale dynamics of a solid state chemical reaction directly determined by annular dark-field electron microscopy. Scientific Reports, 2014, 4, 7555.	3.3	26
32	Luminescence and Time-Resolved Emission Spectra of Nd³⁺and Er³⁺: Silver Zinc Borate Glasses. Solid State Phenomena, 2013, 207, 37-53.	0.3	0
33	Microstructural Characterization of Manganese Oxides Supercapacitors based on Liquid-phase Exfoliated for Energy Storage Applications. Microscopy and Microanalysis, 2013, 19, 1530-1531.	0.4	0
34	Development and Characterization of Lanthanides Doped Hydroxyapatite Composites for Bone Tissue Application. , 2013, , 87-115.		8
35	Structural studies of lithium boro tellurite glasses doped with praseodymium and samarium oxides. Materials Research Bulletin, 2012, 47, 3489-3494.	5.2	39
36	Development and Characterization of <scp><scp>Ag</scp></scp>₂<scp><scp>O</scp></scp>â€Doped <scp><scp>ZnLB</scp></scp> Glasses and Biological Assessment of <scp><scp>Ag</scp></scp>₂<scp><scp>O</scp></scp>â€“<scp><scp>ZnLB</scp></scp>â€“Hydroxyapatite Composites. Journal of the American Ceramic Society, 2012, 95, 2732-2740.	3.8	10

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37	Structural studies of lead lithium borate glasses doped with silver oxide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 392-398.	3.9	68
38	Structural and time resolved emission spectra of Er3+: Silver lead borate glass. Chemical Physics Letters, 2011, 512, 70-75.	2.6	9
39	Luminescence and decay trends for NIR transition (4I13/2â†'4Il5/2) at 1.5Î¼m in Er3+-doped LBT glasses. Optical Materials, 2011, 33, 1167-1173.	3.6	29
40	Physical characterization studies on silver oxide doped PbO- Li 2 O -B 2 O 3 glasses. , 2011, , .		0
41	Synthesis and characterization of HAp nanorods from a cationic surfactant template method. Journal of Materials Science: Materials in Medicine, 2010, 21, 2543-2549.	3.6	46
42	Lasing transition (4F3/2â†'4I11/2) at 1.06Î¼m in neodymium oxide doped lithium boro tellurite glass. Physica B: Condensed Matter, 2010, 405, 4696-4701.	2.7	34