Montse Galceran

List of Publications by Year
in descending order

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		361296	377752
48	1,266	20	34
papers	citations	h-index	g-index
49	49	49	1747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The triphylite NaFe1-yMnyPO4 solid solution (0 â‰ y â‰ 1): Kinetic strain accommodation in NaxFe0.8Mn0.2PO4. Electrochimica Acta, 2022, 425, 140650.	2.6	7
2	Exploring Na-ion technological advances: Pathways from energy to power. Materials Today: Proceedings, 2021, 39, 1118-1131.	0.9	6
3	Sustainable paths to a circular economy: reusing aged Li-ion FePO₄ cathodes within Na-ion cells. JPhys Materials, 2021, 4, 034002.	1.8	5
4	Experimental Considerations for <i>Operando</i> Metalâ€Ion Battery Monitoring using Xâ€ray Techniques. Chemistry Methods, 2021, 1, 249-260.	1.8	14
5	Highly conductive ionogel electrolytes based on N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide FSI and NaFSI mixtures and their applications in sodium batteries. JPhys Materials, 2021, 4, 044005.	1.8	12
6	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	8.8	43
7	Cost-Effective Synthesis of <i>Triphylite</i>-NaFePO₄ Cathode: A Zero-Waste Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 725-730.	3.2	36
8	A Coâ€and Niâ€Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodiumâ€Ion Batteries and its Cycling Behavior. Advanced Functional Materials, 2020, 30, 2003364.	7.8	80
9	Thin Film Electrodes: Surface Evolution of Lithium Titanate upon Electrochemical Cycling Using a Combination of Surface Specific Characterization Techniques (Adv. Mater. Interfaces 11/2020). Advanced Materials Interfaces, 2020, 7, 2070062.	1.9	0
10	The Critical Role of Carbon in the Chemical Delithiation Kinetics of LiFePO₄. Journal of the Electrochemical Society, 2020, 167, 070538.	1.3	8
11	Surface Evolution of Lithium Titanate upon Electrochemical Cycling Using a Combination of Surface Specific Characterization Techniques. Advanced Materials Interfaces, 2020, 7, 1902164.	1.9	2
12	Unravelling the impact of electrolyte nature on Sn₄P₃/C negative electrodes for Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18434-18441.	5.2	21
13	Towards high energy density, low cost and safe Na-ion full-cell using P2â€"Na0.67[Fe0.5Mn0.5]O2 and Na2C4O4 sacrificial salt. Electrochimica Acta, 2019, 321, 134693.	2.6	18
14	UV-Cross-Linked Ionogels for All-Solid-State Rechargeable Sodium Batteries. ACS Applied Energy Materials, 2019, 2, 6960-6966.	2.5	25
15	Investigation of NaTiOPO₄ as Anode for Sodium-Ion Batteries: A Solid Electrolyte Interphase Free Material?. ACS Applied Energy Materials, 2019, 2, 1923-1931.	2.5	18
16	Exploring the rate dependence of phase evolution in P2-type Na_{2/3}Mn_{0.8}Fe_{0.1}Ti_{0.1}O₂. Journal of Materials Chemistry A, 2019, 7, 12115-12125.	5.2	15
17	Poly(ionic liquid) iongel membranes for all solid-state rechargeable sodium battery. Journal of Membrane Science, 2019, 582, 435-441.	4.1	49
18	High Performance Titanium Antimonide TiSb₂ Alloy for Na-Ion Batteries and Capacitors. Chemistry of Materials, 2018, 30, 8155-8163.	3.2	36

#	Article	IF	Citations
19	Rate dependence of the reaction mechanism in olivine NaFePO₄ Na-ion cathode material. International Journal of Energy Research, 2018, 42, 3258-3265.	2.2	28
20	Sodium vanadium nitridophosphate Na3V(PO3)3N as a high-voltage positive electrode material for Na-ion and Li-ion batteries. Electrochemistry Communications, 2017, 84, 14-18.	2.3	36
21	Sol-Gel Synthesized Antimony Anodes for Sodium-Ion Batteries: Identifying Key Parameters for Optimization. Batteries, 2017, 3, 20.	2.1	4
22	Investigation of sodium insertionâ€“extraction in olivine Na_xFePO₄ (0 â‰ x â‰ 1) using first-principles calculations. Physical Chemistry Chemical Physics, 2016, 18, 13045-13051.	1.3	40
23	Size dependent fracture strength and cracking mechanisms in freestanding polycrystalline silicon films with nanoscale thickness. Engineering Fracture Mechanics, 2016, 168, 190-203.	2.0	13
24	Structural evolution during sodium deintercalation/intercalation in Na_{2/3}[Fe_{1/2}Mn_{1/2}]O₂. Journal of Materials Chemistry A, 2015, 3, 6954-6961.	5.2	117
25	Multiscale modelling framework for the fracture of thin brittle polycrystalline films: application to polysilicon. Computational Mechanics, 2015, 55, 73-91.	2.2	14
26	Plasticity mechanisms in ultrafine grained freestanding aluminum thin films revealed by <i>in-situ</i> transmission electron microscopy nanomechanical testing. Applied Physics Letters, 2014, 104, .	1.5	32
27	Naâ€“Vacancy and Charge Ordering in Na_{â‰ˆ2/3}FePO₄. Chemistry of Materials, 2014, 26, 3289-3294.	3.2	48
28	The mechanism of NaFePO₄ (de)sodiation determined by in situ X-ray diffraction. Physical Chemistry Chemical Physics, 2014, 16, 8837-8842.	1.3	96
29	Automatic Crystallographic Characterization in a Transmission Electron Microscope: Applications to Twinning Induced Plasticity Steels and Al Thin Films. Microscopy and Microanalysis, 2013, 19, 693-697.	0.2	9
30	New microarchitectures of (Er,Yb):Lu2O3 nanocrystals embedded in PMMA: synthesis, structural characterization, and luminescent properties. Nanoscale Research Letters, 2013, 8, 385.	3.1	4
31	The fracture studies of polycrystalline silicon based MEMS. , 2013, , .		2
32	Nanoscale characterization of the evolution of the twinâ€“matrix orientation in Feâ€“Mnâ€“C twinning-induced plasticity steel by means of transmission electron microscopy orientation mapping. Scripta Materialia, 2013, 68, 400-403.	2.6	21
33	Structure analysis of aluminium silicon manganese nitride precipitates formed in grain-oriented electrical steels. Materials Characterization, 2013, 86, 116-126.	1.9	23
34	Effect of deposition rate on the microstructure of electron beam evaporated nanocrystalline palladium thin films. Thin Solid Films, 2013, 539, 145-150.	0.8	21
35	Structure and formation mechanism of rolled-in oxide areas on aluminum lithographic printing sheets. Scripta Materialia, 2013, 68, 233-236.	2.6	7
36	Advanced TEM investigation of the plasticity mechanisms in nanocrystalline freestanding palladium films with nanoscale twins. International Journal of Plasticity, 2012, 37, 140-156.	4.1	54

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37	Structural characterization and ytterbium spectroscopy in Sc2O3 nanocrystals. Journal of Luminescence, 2010, 130, 1437-1443.	1.5	13
38	Synthesis, structural and optical characterization of Eu:KYb(WO4)2 nanocrystals: A promising red phosphor. Optical Materials, 2010, 32, 1493-1500.	1.7	17
39	A Promising Lu_{2âˆ’<i>x</i>}Ho<i>_x</i>O₃ Laser Nanoceramic:Synthesis and Characterization. Journal of the American Ceramic Society, 2010, 93, 3764-3772.	1.9	14
40	Synthesis and characterization of KTiOPO₄nanocrystals and their PMMA nanocomposites. Nanotechnology, 2009, 20, 035705.	1.3	14
41	Synthesis of monoclinic KGd(WO4)2 nanocrystals by two preparation methods. Journal of Nanoparticle Research, 2009, 11, 717-724.	0.8	7
42	Synthesis, Structural, and Optical Properties in Monoclinic Er:KYb(WO4)2 Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 15497-15506.	1.5	37
43	Synthesis and characterization of nanocrystalline Yb:Lu2O3 by modified Pechini method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 7-15.	1.7	36
44	UV-excited piezo-optical effects in oxide nanocrystals incorporated into PMMA matrices. Acta Materialia, 2008, 56, 5677-5684.	3.8	22
45	Sol-gel modified Pechini method for obtaining nanocrystalline KRE(WO4)2 (REÂ=ÂGd and Yb). Journal of Sol-Gel Science and Technology, 2007, 42, 79-88.	1.1	112
46	Synthese und Kristallstruktur von heteronuklearen Metallkomplexen mit Nitridobrï¿½cken Re?N-Ni, Re?N-Pt, Os?N-Rh und Os?N-Ir. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 1113-1118.	0.6	9
47	Synthese und Struktur der Nitridokomplexe (Ph3Sb)2Cl3Osâ‰¡N-RhCl(COD), (Me2PhP)2(PhCN)Cl2Reâ‰¡N-RhCl2(C5Me5), [(Me2PhP)3(PhCN)ClReâ‰¡N-OsCl2(CO)3][OsCl3(CO)3] und [(Me2PhP)3(PhCN)ClReâ‰¡N-ReCl4-Nâ‰¡ReCl(NCPh)(PMe2Ph)3][OsCl4(CO)2] / Synthesis and Structure of the Nitrido Complexes (Ph3Sb)2Cl3Osâ‰¡N-RhCl(COD), (Me2PhP)2(PhCN)Cl2Reâ‰¡N-RhCl2(C5Me5), [(Me2PhP)3(PhCN)ClReâ‰¡N-OsCl2(CO)3][OsCl3(CO)3], and [illegible] Zeitschrift Fur Naturforschung -	0.3	11
48	Synthese und Struktur der Silber-Komplexe [PPh4]2[Ag4Cl4(ClC6H4N3C6H4Cl)2], [Et4N][Ag2(tolyl-N5-tolyl)3]ï¿½2THF und [(n-Bu)4N]3[Ag3I6] und ï¿½ber die Reaktion der Komplexe [Ag(ClC6H4N3C6H4Cl)]2 und [Ag(tolyl-N5-tolyl)]2 mit Iod. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 2231-2236.	0.6	10