

# Maria V Blanco

## List of Publications by Year in descending order

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32  
papers

791  
citations

516561

16  
h-index

501076

28  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Active and Stable Iridium Pyrochlores for Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2017, 29, 5182-5191.	3.2	172
2	Ball-free mechanochemistry: <i>in situ</i> real-time monitoring of pharmaceutical co-crystal formation by resonant acoustic mixing. <i>Chemical Communications</i> , 2018, 54, 4033-4036.	2.2	81
3	Tandem In Situ Monitoring for Quantitative Assessment of Mechanochemical Reactions Involving Structurally Unknown Phases. <i>Chemistry - A European Journal</i> , 2017, 23, 13941-13949.	1.7	70
4	Stability of LaNi <sub>5</sub> -xSn <sub>x</sub> cycled in hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8791-8796.	3.8	51
5	Dynamic measurements of hydrogen reaction with LaNi <sub>5</sub> -xSn <sub>x</sub> alloys. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7335-7343.	3.8	47
6	X-ray transparent proton-exchange membrane fuel cell design for <i>in situ</i> wide and small angle scattering tomography. <i>Journal of Power Sources</i> , 2019, 437, 226906.	4.0	35
7	Isotope Labeling Reveals Fast Atomic and Molecular Exchange in Mechanochemical Milling Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 1212-1216.	6.6	34
8	Intermediate range O-H correlations in supercooled water down to 235 K. <i>Journal of Chemical Physics</i> , 2019, 150, 224506. <i>Low temperature solid state synthesis of</i>	1.2	28
9	$\text{Li}_4\text{FeO}_5$ synthesis of	6.6	27
10	Cycling performance and hydriding kinetics of LaNi <sub>5</sub> and LaNi <sub>4.73</sub> Sn <sub>0.27</sub> alloys in the presence of CO. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10517-10524.	3.8	26
11	Imaging Heterogeneous Electrocatalyst Stability and Decoupling Degradation Mechanisms in Operating Hydrogen Fuel Cells. <i>ACS Energy Letters</i> , 2021, 6, 2742-2749.	8.8	26
12	Evaluation of the formation and carbon dioxide capture by Li <sub>4</sub> SiO <sub>4</sub> using <i>in situ</i> synchrotron powder X-ray diffraction studies. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26570-26579.	1.3	25
13	Atomic-Scale Insight into the Structure of Metastable $\text{Ga}_2\text{O}_3$ Nanocrystals and their Thermally-Driven Transformation to $\text{Ga}_2\text{O}_3$ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 20578-20588.	1.5	24
14	Experimental and Theoretical Study of Selectivity in Mechanochemical Cocrystallization of Nicotinamide with Anthranilic and Salicylic Acid. <i>Crystal Growth and Design</i> , 2018, 18, 1539-1547.	1.4	22
15	Probing the Dynamics of Platinum Surface Oxides in Fuel Cell Catalyst Layers Using <i>in situ</i> X-ray Diffraction. <i>ACS Applied Energy Materials</i> , 2019, 2, 7772-7780.	2.5	20
16	Effect of molten sodium nitrate on the decomposition pathways of hydrated magnesium hydroxycarbonate to magnesium oxide probed by <i>in situ</i> total scattering. <i>Nanoscale</i> , 2020, 12, 16462-16473.	2.8	16
17	Time-Resolved Synchrotron Powder X-ray Diffraction Studies on the Synthesis of Li <sub>8</sub> SiO <sub>6</sub> and Its Reaction with CO <sub>2</sub> . <i>Inorganic Chemistry</i> , 2019, 58, 1040-1047.	1.9	11
18	Nanostructured diatom earth SiO <sub>2</sub> negative electrodes with superior electrochemical performance for lithium ion batteries. <i>RSC Advances</i> , 2020, 10, 33490-33498.	1.7	11

#	ARTICLE	IF	CITATIONS
19	Optimizing carbon coating parameters for obtaining SiO <sub>2</sub> /C anodes with improved electrochemical performance. Journal of Solid State Electrochemistry, 2021, 25, 1339-1351.	1.2	11
20	Kinetics of bioaccumulation of heavy metals in <i>Odontesthes bonariensis</i> is explained by a single and common mechanism. Ecological Modelling, 2014, 274, 50-56.	1.2	8
21	Study of the Thermal Stability in Air of LaNi <sub>5</sub> by DSC, EDX, TEM and XRD Combined Techniques. , 2012, 1, 564-571.		7
22	Mechanochemical synthesis of a La <sub>0.67</sub> Ce <sub>0.21</sub> Nd <sub>0.08</sub> Pr <sub>0.04</sub> Ni <sub>5</sub> intermetallic compound. Advanced Powder Technology, 2013, 24, 86-92.	2.0	7
23	Hydrogen sorption kinetics of La-Ni-Sn storage alloys. International Journal of Hydrogen Energy, 2014, 39, 5858-5867.	3.8	7
24	Electrochemical activation of a diatom-derived SiO <sub>2</sub> /C composite anode and its implementation in a lithium ion battery. Solid State Ionics, 2021, 371, 115766.	1.3	7
25	Model-Independent X-Ray Scattering Study of a Silica Sol Surface. JETP Letters, 2018, 107, 384-389.	0.4	5
26	Simultaneous Monitoring of Structural Changes and Phase Distribution of LiFePO <sub>4</sub> Along the Cathode Thickness of Li Metal Polymer Battery. Journal of the Electrochemical Society, 2020, 167, 160517.	1.3	5
27	Dynamics of phase transitions in Na <sub>2</sub> TiO <sub>3</sub> and its possible utilization as a CO <sub>2</sub> sorbent: a critical analysis. Reaction Chemistry and Engineering, 2021, 6, 1974-1982.	1.9	4
28	Study of the high pressure phase evolution of $\text{Co}_3\text{O}_4$ . Physical Review B, 2019, 100, .	1.1	3
29	Analysis of the Silica Sol Surface Structure by X-Ray Scattering Method. Journal of Experimental and Theoretical Physics, 2021, 132, 1-17.	0.2	1
30	Model-independent X-ray reflectometry analysis of phospholipid thin films on liquid substrates. Journal of Physics: Conference Series, 2019, 1186, 012010.	0.3	0
31	Electrochemical Properties of Amorphous Silica As an Anode Material for Li-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
32	Effect of Different Carbon Precursors on SiO <sub>2</sub> /C Anodes for Li-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0