## Ana S Dobrota

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Surface pourbaix plots of M@N4-graphene single-atom electrocatalysts from density functional theory thermodynamic modeling. Electrochimica Acta, 2022, 412, 140155.	5.2	29
2	Enhancement of hydrogen evolution reaction kinetics in alkaline media by fast galvanic displacement of nickel with rhodium – From smooth surfaces to electrodeposited nickel foams. Electrochimica Acta, 2022, 414, 140214.	5.2	10
3	First-principles analysis of aluminium interaction with nitrogen-doped graphene nanoribbons – from adatom bonding to various potential applications. Materials Today Communications, 2022, 31, 103388.	1.9	0
4	A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction. Journal of Energy Chemistry, 2021, 55, 428-436.	12.9	8
5	As a single atom Pd outperforms Pt as the most active co-catalyst for photocatalytic H2 evolution. IScience, 2021, 24, 102938.	4.1	33
6	What Is the Real State of Single-Atom Catalysts under Electrochemical Conditions—From Adsorption to Surface Pourbaix Plots?. Catalysts, 2021, 11, 1207.	3.5	6
7	Theoretical analysis of doped graphene as cathode catalyst in Li-O2 and Na-O2 batteries – the impact of the computational scheme. Electrochimica Acta, 2020, 354, 136735.	5.2	11
8	Hydrogen Evolution Reaction-From Single Crystal to Single Atom Catalysts. Catalysts, 2020, 10, 290.	3.5	46
9	Altering the reactivity of pristine, N- and P-doped graphene by strain engineering: A DFT view on energy related aspects. Applied Surface Science, 2020, 514, 145937.	6.1	33
10	Atomically Thin Metal Films on Foreign Substrates: From Lattice Mismatch to Electrocatalytic Activity. ACS Catalysis, 2019, 9, 3467-3481.	11.2	25
11	Sodium storage via single epoxy group on graphene – The role of surface doping. Electrochimica Acta, 2019, 297, 523-528.	5.2	14
12	When supporting electrolyte matters – Tuning capacitive response of graphene oxide via electrochemical reduction in alkali and alkaline earth metal chlorides. Electrochimica Acta, 2019, 297, 112-117.	5.2	7
13	Effects of alkali metal cations on oxygen reduction on N-containing carbons viewed as the interplay between capacitive and electrocatalytic properties: Experiment and theory. Journal of the Serbian Chemical Society, 2019, 84, 901-914.	0.8	1
14	Structural and electronic properties of V <sub>2</sub> O <sub>5</sub> and their tuning by doping with 3d elements – modelling using the DFT+ <i>U</i> method and dispersion correction. Physical Chemistry Chemical Physics, 2018, 20, 13934-13943.	2.8	41
15	Atomic adsorption on pristine graphene along the Periodic Table of Elements – From PBE to non-local functionals. Applied Surface Science, 2018, 436, 433-440.	6.1	61
16	Simple routes for the improvement of hydrogen evolution activity of Ni-Mo catalysts: From sol-gel derived powder catalysts to graphene supported co-electrodeposits. International Journal of Hydrogen Energy, 2018, 43, 16846-16858.	7.1	22
17	Atomic adsorption on graphene with a single vacancy: systematic DFT study through the periodic table of elements. Physical Chemistry Chemical Physics, 2018, 20, 858-865.	2.8	81
18	Lattice mismatch as the descriptor of segregation, stability and reactivity of supported thin catalyst films. Physical Chemistry Chemical Physics, 2018, 20, 1524-1530.	2.8	17

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19	Investigation of electrocatalytic activity on a N-doped reduced graphene oxide surface for the oxygen reduction reaction in an alkaline medium. International Journal of Hydrogen Energy, 2018, 43, 12129-12139.	7.1	33
20	A study of ordered mesoporous carbon doped with Co and Ni as a catalyst of oxygen reduction reaction in both alkaline and acidic media. Surface and Coatings Technology, 2018, 349, 511-521.	4.8	24
21	A DFT study of the interplay between dopants and oxygen functional groups over the graphene basal plane – implications in energy-related applications. Physical Chemistry Chemical Physics, 2017, 19, 8530-8540.	2.8	56
22	Improved catalysts for hydrogen evolution reaction in alkaline solutions through the electrochemical formation of nickel-reduced graphene oxide interface. Physical Chemistry Chemical Physics, 2017, 19, 13281-13293.	2.8	45
23	Functionalized graphene for sodium battery applications: the DFT insights. Electrochimica Acta, 2017, 250, 185-195.	5.2	43
24	A Review of Theoretical Studies on Functionalized Graphene for Electrochemical Energy Conversion and Storage Applications. Current Physical Chemistry, 2017, 6, 244-265.	0.2	1
25	Stabilization of alkali metal ions interaction with OH-functionalized graphene via clustering of OH groups – implications in charge storage applications. RSC Advances, 2016, 6, 57910-57919.	3.6	25
26	A general view on the reactivity of the oxygen-functionalized graphene basal plane. Physical Chemistry Chemical Physics, 2016, 18, 6580-6586.	2.8	54
27	Oxidized graphene as an electrode material for rechargeable metal-ion batteries – a DFT point of view. Electrochimica Acta, 2015, 176, 1092-1099.	5.2	33
28	The Effects of a Low-Level Boron, Phosphorus, and Nitrogen Doping on the Oxygen Reduction Activity of Ordered Mesoporous Carbons. Electrocatalysis, 2015, 6, 498-511.	3.0	35
29	The effect of surface modification by reduced graphene oxide on the electrocatalytic activity of nickel towards the hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2015, 17, 26864-26874.	2.8	86