

Ana S Dobrota

List of Publications by Year in descending order

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29
papers

880
citations

393982

19
h-index

500791

28
g-index

29
all docs

29
docs citations

29
times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of surface modification by reduced graphene oxide on the electrocatalytic activity of nickel towards the hydrogen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26864-26874.	1.3	86
2	Atomic adsorption on graphene with a single vacancy: systematic DFT study through the periodic table of elements. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 858-865.	1.3	81
3	Atomic adsorption on pristine graphene along the Periodic Table of Elements – From PBE to non-local functionals. <i>Applied Surface Science</i> , 2018, 436, 433-440.	3.1	61
4	A DFT study of the interplay between dopants and oxygen functional groups over the graphene basal plane – implications in energy-related applications. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8530-8540.	1.3	56
5	A general view on the reactivity of the oxygen-functionalized graphene basal plane. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6580-6586.	1.3	54
6	Hydrogen Evolution Reaction-From Single Crystal to Single Atom Catalysts. <i>Catalysts</i> , 2020, 10, 290.	1.6	46
7	Improved catalysts for hydrogen evolution reaction in alkaline solutions through the electrochemical formation of nickel-reduced graphene oxide interface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13281-13293.	1.3	45
8	Functionalized graphene for sodium battery applications: the DFT insights. <i>Electrochimica Acta</i> , 2017, 250, 185-195.	2.6	43
9	Structural and electronic properties of $V_{2}O_{5}$ and their tuning by doping with 3d elements – modelling using the DFT+ <i>U</i> method and dispersion correction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13934-13943.	1.3	41
10	The Effects of a Low-Level Boron, Phosphorus, and Nitrogen Doping on the Oxygen Reduction Activity of Ordered Mesoporous Carbons. <i>Electrocatalysis</i> , 2015, 6, 498-511.	1.5	35
11	Oxidized graphene as an electrode material for rechargeable metal-ion batteries – a DFT point of view. <i>Electrochimica Acta</i> , 2015, 176, 1092-1099.	2.6	33
12	Investigation of electrocatalytic activity on a N-doped reduced graphene oxide surface for the oxygen reduction reaction in an alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12129-12139.	3.8	33
13	Altering the reactivity of pristine, N- and P-doped graphene by strain engineering: A DFT view on energy related aspects. <i>Applied Surface Science</i> , 2020, 514, 145937.	3.1	33
14	As a single atom Pd outperforms Pt as the most active co-catalyst for photocatalytic H ₂ evolution. <i>IScience</i> , 2021, 24, 102938.	1.9	33
15	Surface pourbaix plots of M@N ₄ -graphene single-atom electrocatalysts from density functional theory thermodynamic modeling. <i>Electrochimica Acta</i> , 2022, 412, 140155.	2.6	29
16	Stabilization of alkali metal ions interaction with OH-functionalized graphene via clustering of OH groups – implications in charge storage applications. <i>RSC Advances</i> , 2016, 6, 57910-57919.	1.7	25
17	Atomically Thin Metal Films on Foreign Substrates: From Lattice Mismatch to Electrocatalytic Activity. <i>ACS Catalysis</i> , 2019, 9, 3467-3481.	5.5	25
18	A study of ordered mesoporous carbon doped with Co and Ni as a catalyst of oxygen reduction reaction in both alkaline and acidic media. <i>Surface and Coatings Technology</i> , 2018, 349, 511-521.	2.2	24

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19	Simple routes for the improvement of hydrogen evolution activity of Ni-Mo catalysts: From sol-gel derived powder catalysts to graphene supported co-electrodeposits. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16846-16858.	3.8	22
20	Lattice mismatch as the descriptor of segregation, stability and reactivity of supported thin catalyst films. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1524-1530.	1.3	17
21	Sodium storage via single epoxy group on graphene – The role of surface doping. <i>Electrochimica Acta</i> , 2019, 297, 523-528.	2.6	14
22	Theoretical analysis of doped graphene as cathode catalyst in Li-O ₂ and Na-O ₂ batteries – the impact of the computational scheme. <i>Electrochimica Acta</i> , 2020, 354, 136735.	2.6	11
23	Enhancement of hydrogen evolution reaction kinetics in alkaline media by fast galvanic displacement of nickel with rhodium – From smooth surfaces to electrodeposited nickel foams. <i>Electrochimica Acta</i> , 2022, 414, 140214.	2.6	10
24	A Pt/MnV ₂ O ₆ nanocomposite for the borohydride oxidation reaction. <i>Journal of Energy Chemistry</i> , 2021, 55, 428-436.	7.1	8
25	When supporting electrolyte matters – Tuning capacitive response of graphene oxide via electrochemical reduction in alkali and alkaline earth metal chlorides. <i>Electrochimica Acta</i> , 2019, 297, 112-117.	2.6	7
26	What Is the Real State of Single-Atom Catalysts under Electrochemical Conditions – From Adsorption to Surface Pourbaix Plots?. <i>Catalysts</i> , 2021, 11, 1207.	1.6	6
27	A Review of Theoretical Studies on Functionalized Graphene for Electrochemical Energy Conversion and Storage Applications. <i>Current Physical Chemistry</i> , 2017, 6, 244-265.	0.1	1
28	Effects of alkali metal cations on oxygen reduction on N-containing carbons viewed as the interplay between capacitive and electrocatalytic properties: Experiment and theory. <i>Journal of the Serbian Chemical Society</i> , 2019, 84, 901-914.	0.4	1
29	First-principles analysis of aluminium interaction with nitrogen-doped graphene nanoribbons – from adatom bonding to various potential applications. <i>Materials Today Communications</i> , 2022, 31, 103388.	0.9	0