JuanH PachecoS

List of Publications by Year in descending order

35 papers	632 citations	759233 12 h-index	580821 25 g-index
36 all docs	36 docs citations	36 times ranked	563 citing authors

#	Article	IF	Citations
1	Asphaltene Aggregation under Vacuum at Different Temperatures by Molecular Dynamics. Energy & Fuels, 2003, 17, 1346-1355.	5.1	127
2	Morphology of Aggregated Asphaltene Structural Models. Energy & Fuels, 2004, 18, 1676-1686.	5.1	92
3	A hybrid method to face class overlap and class imbalance on neural networks and multi-class scenarios. Pattern Recognition Letters, 2013, 34, 380-388.	4.2	60
4	Hydrogen storage on lithium decorated zeolite templated carbon, DFT study. International Journal of Hydrogen Energy, 2017, 42, 30704-30717.	7.1	46
5	Application of molecular simulation to calculate miscibility of a model asphaltene molecule. Fluid Phase Equilibria, 2006, 239, 100-106.	2.5	43
6	PREDICTION OF THE PHASE BEHAVIOR OF ASPHALTENE MICELLE / AROMATIC HYDROCARBON SYSTEMS. Petroleum Science and Technology, 1998, 16, 377-394.	1.5	34
7	Hydrogen storage in Ca-decorated carbyne C10-ring on either Dnh or D(n/2)h symmetry. DFT study. International Journal of Hydrogen Energy, 2020, 45, 6780-6792.	7.1	31
8	DFT study of hydrogen storage on the metallic decoration of boron substitution on zeolite templated carbon vacancy. International Journal of Hydrogen Energy, 2020, 45, 19505-19515.	7.1	31
9	An Efficient Over-sampling Approach Based on Mean Square Error Back-propagation for Dealing with the Multi-class Imbalance Problem. Neural Processing Letters, 2015, 42, 603-617.	3.2	28
10	Preliminary Study of the Effect of Pressure on Asphaltene Disassociation by Molecular Dynamics. Petroleum Science and Technology, 2004, 22, 927-942.	1.5	19
11	Ab initio study of the reactions of Ga(2P,â€‰2S,â€‰andâ€‰2P) with methane. Journal of Chemical Physics, 2004, 120, 4240-4246.	3.0	12
12	Theoretical studies in the stability of vacancies in zeolite templated carbon for hydrogen storage. International Journal of Hydrogen Energy, 2019, 44, 6437-6447.	7.1	12
13	Neural networks to fit potential energy curves from asphaltene-asphaltene interaction data. Fuel, 2019, 236, 1117-1127.	6.4	12
14	Methodology for Predicting the Phase Envelope of a Heavy Crude Oil and Its Asphaltene Deposition Onset. Petroleum Science and Technology, 2007, 25, 19-39.	1.5	10
15	Carbyne Ring Activated Using ZnCl₂ for Hydrogen Adsorption: DFT Study. ACS Omega, 2022, 7, 10100-10114.	3.5	10
16	A Selective Dynamic Sampling Back-Propagation Approach for Handling the Two-Class Imbalance Problem. Applied Sciences (Switzerland), 2016, 6, 200.	2.5	9
17	Ab initio study of the reactions of Ga(2P, 2S, and 2P) with silane. Journal of Chemical Physics, 2004, 121, 5777-5782.	3.0	8
18	Potential Energy Surfaces for Reactions of X Metal Atoms (X = Cu, Zn, Cd, Ga, Al, Au, or Hg) with YH₄ Molecules (Y = C, Si, or Ge) and Transition Probabilities at Avoided Crossings in Some Cases. Advances in Physical Chemistry, 2012, 2012, 1-17.	2.0	8

#	Article	IF	Citations
19	Transition probabilities on Ga(P2,S2,andP2)+CH4 reactions. Journal of Chemical Physics, 2007, 126, 106103.	3.0	7
20	An improved dynamic sampling back-propagation algorithm based on mean square error to face the multi-class imbalance problem. Neural Computing and Applications, 2017, 28, 2843-2857.	5.6	7
21	Empirical Analysis of Assessments Metrics for Multi-class Imbalance Learning on the Back-Propagation Context. Lecture Notes in Computer Science, 2014, , 17-23.	1.3	6
22	Landauâ€“Zener theory for avoided crossings applied to the galliumâ€“silane reactions. International Journal of Quantum Chemistry, 2007, 107, 3053-3060.	2.0	5
23	Transition probabilities found for M + CH₄ reactions (M = zinc, copper). International Journal of Quantum Chemistry, 2008, 108, 1645-1652.	2.0	4
24	Electrochemical synthesis of polypyrrole films doped with iodine by luminescent discharge plasma. MRS Advances, 2018, 3, 3847-3852.	0.9	3
25	Avoided crossings in metal (M)â€“gas (X) reactions (MÂ=ÂHg, and XÂ=ÂSiH4, GeH4). Theoretical Chemistry Accounts, 2010, 126, 109-116.	1.4	2
26	Transition probabilities for the Au (S2, D2, and P2) with SiH4 reaction. Journal of Chemical Physics, 2010, 132, 044301.	3.0	2
27	A theoretical approach to the photochemical activation of matrix isolated aluminum atoms and their reaction with methane. Journal of Chemical Physics, 2010, 133, 174307.	3.0	2
28	Bayesian Learning on Discrete Systems of Two Classes. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1860013.	1.2	1
29	Neural networks for fitting PES data distributions of asphaltene interaction. , 2009, , .		0
30	Pneumatic Artificial Mini-Muscles Conception: Medical Robotics Applications. Applied Mechanics and Materials, 2009, 15, 49-54.	0.2	0
31	Geometry Optimization as Molecular Modeling on Activating Carbon with Polypirrole. Materials Research Society Symposia Proceedings, 2016, 1819, 1.	0.1	0
32	A Non-Planar Iodinated Pyrrole Study. Materials Research Society Symposia Proceedings, 2016, 1819, 1.	0.1	0
33	Analysing the Safe, Average and Border Samples on Two-Class Imbalance Problems in the Back-Propagation Domain. Lecture Notes in Computer Science, 2015, , 699-707.	1.3	0
34	Chitosan films modified with glow discharge plasma in aqueous solution of pyrrole and its evaluation in the removal of red dye no. 2. Revista Mexicana De Ingeniera Quimica, 2020, 19, 1291-1299.	0.4	0
35	In Situ Remediation of Heavy Organic Deposits Using Aromatic Solvents. , 0, , .		0