JuanH Pacheco8

List of Publications by Year in Descending Order

32 papers	468 citations	11 h-index	21 g-index
34 ext. papers	553 ext. citations	3.2 avg, IF	3.67 L-index

#	Paper	IF	Citations
32	Carbyne Ring Activated Using ZnCl for Hydrogen Adsorption: DFT Study.. *ACS Omega*, **2022**, 7, 10100-10114	3.9	0
31	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	6.7	12
30	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	6.7	12
29	Theoretical studies in the stability of vacancies in zeolite templated carbon for hydrogen storage. *International Journal of Hydrogen Energy*, **2019**, 44, 6437-6447	6.7	7
28	Neural networks to fit potential energy curves from asphaltene-asphaltene interaction data. *Fuel*, **2019**, 236, 1117-1127	7.1	9
27	Bayesian Learning on Discrete Systems of Two Classes. *International Journal of Pattern Recognition and Artificial Intelligence*, **2018**, 32, 1860013	1.1	1
26	Electrochemical synthesis of polypyrrole films doped with iodine by luminescent discharge plasma. *MRS Advances*, **2018**, 3, 3847-3852	0.7	2
25	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	4.8	6
24	Hydrogen storage on lithium decorated zeolite templated carbon, DFT study. *International Journal of Hydrogen Energy*, **2017**, 42, 30704-30717	6.7	29
23	A Selective Dynamic Sampling Back-Propagation Approach for Handling the Two-Class Imbalance Problem. *Applied Sciences (Switzerland)*, **2016**, 6, 200	2.6	8
22	Geometry Optimization as Molecular Modeling on Activating Carbon with Polypirrole. *Materials Research Society Symposia Proceedings*, **2016**, 1819, 1		
21	A Non-Planar Iodinated Pyrrole Study. *Materials Research Society Symposia Proceedings*, **2016**, 1819, 1		
20	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	2.4	16
19	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	0.9	
18	Empirical Analysis of Assessments Metrics for Multi-class Imbalance Learning on the Back-Propagation Context. *Lecture Notes in Computer Science*, **2014**, 17-23	0.9	5
17	A hybrid method to face class overlap and class imbalance on neural networks and multi-class scenarios. *Pattern Recognition Letters*, **2013**, 34, 380-388	4.7	48
16	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		7

List of Publications

15	Transition probabilities for the Au ((2)S, (2)D, and (2)P) with SiH(4) reaction. *Journal of Chemical Physics*, **2010**, 132, 044301	3.9	2
14	A theoretical approach to the photochemical activation of matrix isolated aluminum atoms and their reaction with methane. *Journal of Chemical Physics*, **2010**, 133, 174307	3.9	2
13	Avoided crossings in metal (M)–gas (X) reactions (M = Hg, and X = SiH4, GeH4). *Theoretical Chemistry Accounts*, **2010**, 126, 109-116	1.9	2
12	Pneumatic Artificial Mini-Muscles Conception: Medical Robotics Applications. *Applied Mechanics and Materials*, **2009**, 15, 49-54	0.3	
11	Transition probabilities found for M + CH4 reactions (M = zinc, copper). *International Journal of Quantum Chemistry*, **2008**, 108, 1645-1652	2.1	4
10	Landau–Zener theory for avoided crossings applied to the gallium–silane reactions. *International Journal of Quantum Chemistry*, **2007**, 107, 3053-3060	2.1	5
9	Methodology for Predicting the Phase Envelope of a Heavy Crude Oil and Its Asphaltene Deposition Onset. *Petroleum Science and Technology*, **2007**, 25, 19-39	1.4	8
8	Transition probabilities on Ga(2P,2S, and 2P)+CH4 reactions. *Journal of Chemical Physics*, **2007**, 126, 106103	3.9	7
7	Application of molecular simulation to calculate miscibility of a model asphaltene molecule. *Fluid Phase Equilibria*, **2006**, 239, 100-106	2.5	34
6	Ab initio study of the reactions of Ga(2P, 2S, and 2P) with methane. *Journal of Chemical Physics*, **2004**, 120, 4240-6	3.9	12
5	Ab initio study of the reactions of Ga((2)P, (2)S, and (2)P) with silane. *Journal of Chemical Physics*, **2004**, 121, 5777-82	3.9	8
4	Morphology of Aggregated Asphaltene Structural Models. *Energy & Fuels*, **2004**, 18, 1676-1686	4.1	80
3	Preliminary Study of the Effect of Pressure on Asphaltene Disassociation by Molecular Dynamics. *Petroleum Science and Technology*, **2004**, 22, 927-942	1.4	12
2	Asphaltene Aggregation under Vacuum at Different Temperatures by Molecular Dynamics. *Energy & Fuels*, **2003**, 17, 1346-1355	4.1	100
1	PREDICTION OF THE PHASE BEHAVIOR OF ASPHALTENE MICELLE / AROMATIC HYDROCARBON SYSTEMS. *Petroleum Science and Technology*, **1998**, 16, 377-394	1.4	30