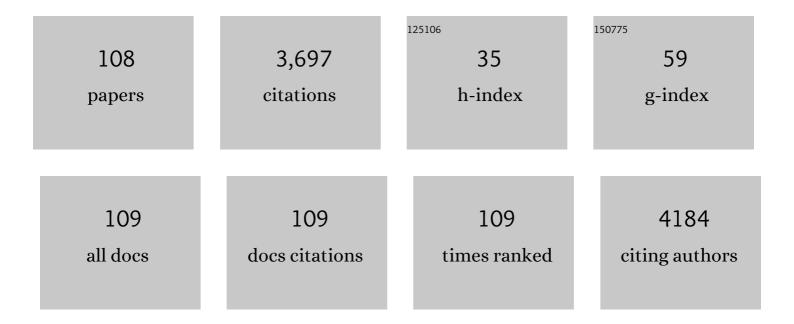
List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Palladium clusters, free and supported on surfaces, and their applications in hydrogen storage.<br>Physical Chemistry Chemical Physics, 2022, 24, 2729-2751.                        | 1.3 | 9         |
| 2  | Catalytic activity of Co–Ag nanoalloys to dissociate molecular hydrogen. New insights on the chemical environment. International Journal of Hydrogen Energy, 2022, 47, 19038-19050. | 3.8 | 3         |
| 3  | Infrared spectra and structures of C60Rhn+ complexes. Carbon, 2022, 197, 535-543.   | 5.4 | 7         |
| 4  | Interaction of hydrogen with palladium–copper nanoalloys. Theoretical Chemistry Accounts, 2021,<br>140, 1.  | 0.5 | 7         |
| 5  | Theoretical Study of the Diels-Alder Dimerization of C30H10. ECS Meeting Abstracts, 2021, MA2021-01, 645-645.   | 0.0 | Ο         |
| 6  | Adsorption of transition metal clusters on Boron-graphdiyne. Applied Surface Science, 2021, 548, 149270.  | 3.1 | 4         |
| 7  | C60Con complexes as hydrogen adsorbing materials. International Journal of Hydrogen Energy, 2021,<br>46, 20594-20606.   | 3.8 | 7         |
| 8  | Absence of spillover of hydrogen adsorbed on small palladium clusters anchored to graphene<br>vacancies. Applied Surface Science, 2021, 559, 149835.                                | 3.1 | 17        |
| 9  | Nanoalloys of Metals Which Do Not Form Bulk Alloys: The Case of Ag–Co. Journal of Physical<br>Chemistry A, 2020, 124, 6468-6477.  | 1.1 | 12        |
| 10 | Dimerization of pentacyclopentacorannulene C30H10 as a strategy to produce C60H20 as a precursor for C60. RSC Advances, 2020, 10, 3689-3693.  | 1.7 | 3         |
| 11 | Reactivity of Cobaltâ€Fullerene Complexes towards Deuterium. ChemPhysChem, 2020, 21, 1012-1018.   | 1.0 | 8         |
| 12 | Interaction of Hydrogen with Graphitic Surfaces, Clean and Doped with Metal Clusters. , 2020, ,<br>545-566.   |     | 0         |
| 13 | Transferability in interatomic potentials for carbon. Carbon, 2019, 155, 624-634.   | 5.4 | 55        |
| 14 | Dynamics of Cluster Isomerization Induced by Hydrogen Adsorption. Journal of Physical Chemistry C, 2019, 123, 15236-15243.  | 1.5 | 12        |
| 15 | Bimetallic Al–Sn clusters: mixing at the nanoscale. Physical Chemistry Chemical Physics, 2019, 21, 22919-22929.   | 1.3 | 8         |
| 16 | Theoretical study of the adsorption of hydrogen on cobalt clusters. Physical Chemistry Chemical Physics, 2018, 20, 21163-21176.   | 1.3 | 19        |
| 17 | Interaction of Hydrogen with Graphitic Surfaces, Clean and Doped with Metal Clusters. , 2018, , 1-22.   |     | 0         |
| 18 | Competition between Palladium Clusters and Hydrogen to Saturate Graphene Vacancies. Journal of<br>Physical Chemistry C, 2017, 121, 10843-10850.                                     | 1.5 | 21        |

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|----|--|-----|-----------|
| 19 | Structural prediction of graphitization and porosity in carbide-derived carbons. Carbon, 2017, 119, 1-9.   | 5.4 | 62        |
| 20 | Steric and chemical effects on the hydrogen adsorption and dissociation on free and graphene–supported palladium clusters. Computational and Theoretical Chemistry, 2017, 1107, 23-29. | 1.1 | 25        |
| 21 | Interaction of aromatic molecules with small gold clusters. Chemical Physics Letters, 2017, 684, 91-96.  | 1.2 | 10        |
| 22 | Searching for DFT-based methods that include dispersion interactions to calculate the physisorption of H2 on benzene and graphene. Journal of Chemical Physics, 2017, 146, 214104.     | 1.2 | 30        |
| 23 | Manipulating the Magnetic Moment of Palladium Clusters by Adsorption and Dissociation of Molecular Hydrogen. Journal of Physical Chemistry C, 2017, 121, 20756-20762.                  | 1.5 | 12        |
| 24 | Adsorption and growth of palladium clusters on graphdiyne. Physical Chemistry Chemical Physics, 2017, 19, 19094-19102.   | 1.3 | 40        |
| 25 | The Storage of Hydrogen in Nanoporous Carbons. Journal of the Mexican Chemical Society, 2017, 56, .  | 0.2 | 2         |
| 26 | Is Spillover Relevant for Hydrogen Adsorption and Storage in Porous Carbons Doped with Palladium<br>Nanoparticles?. Journal of Physical Chemistry C, 2016, 120, 17357-17364.           | 1.5 | 51        |
| 27 | Interaction of hydrogen with palladium clusters deposited on graphene. AIP Conference Proceedings, 2015, , .   | 0.3 | Ο         |
| 28 | Competition between molecular and dissociative adsorption of hydrogen on palladium clusters<br>deposited on defective graphene. RSC Advances, 2015, 5, 47945-47953.                    | 1.7 | 45        |
| 29 | From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. Nanoscale, 2015, 7, 2374-2390.  | 2.8 | 95        |
| 30 | Ab initio studies of propene epoxidation on oxidized silver surfaces. Physical Chemistry Chemical Physics, 2014, 16, 26546-26552.  | 1.3 | 17        |
| 31 | Palladium Clusters Anchored on Graphene Vacancies and Their Effect on the Reversible Adsorption of<br>Hydrogen. Journal of Physical Chemistry C, 2014, 118, 5081-5090.                 | 1.5 | 73        |
| 32 | Simulation of hydrogen storage in porous carbons. Journal of Materials Research, 2013, 28, 589-604.  | 1.2 | 31        |
| 33 | Evolution of the atomic structure and the magnetism of small oxygen clusters. Computational and Theoretical Chemistry, 2013, 1021, 215-221.  | 1.1 | 3         |
| 34 | Electronic and magnetic properties of Fe clusters inside finite zigzag single-wall carbon nanotubes.<br>Physical Review B, 2013, 87, .   | 1.1 | 8         |
| 35 | Adsorption and dissociation of molecular hydrogen on the edges of graphene nanoribbons. Journal of Nanoparticle Research, 2012, 14, 1.   | 0.8 | 15        |
| 36 | Density functional study of low-lying isomers of SiO4, GeO4 and CO4, and their relation to tetrahedral solid phases. European Physical Journal D, 2012, 66, 1.                         | 0.6 | 0         |

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|----|--|-----|-----------|
| 37 | Adsorption and Dissociation of Molecular Hydrogen on Palladium Clusters Supported on Graphene.<br>Journal of Physical Chemistry C, 2012, 116, 21179-21189.   | 1.5 | 104       |
| 38 | Simulated porosity and electronic structure of nanoporous carbons. Journal of Chemical Physics, 2011, 135, 104706.   | 1.2 | 37        |
| 39 | Simulation of the hydrogen storage in nanoporous carbons with different pore shapes. International<br>Journal of Hydrogen Energy, 2011, 36, 10748-10759.   | 3.8 | 65        |
| 40 | Modeling of the functionalization of single-wall carbon nanotubes towards its solubilization in an aqueous medium. European Physical Journal D, 2011, 61, 381-388.   | 0.6 | 14        |
| 41 | Optical to ultraviolet spectra of sandwiches of benzene and transition metal atoms: Time dependent density functional theory and many-body calculations. Journal of Chemical Physics, 2010, 132, 044314.                     | 1.2 | 40        |
| 42 | Theoretical study of the transition from planar to three-dimensional structures of palladium clusters supported on graphene. Physical Review B, 2010, 81, .  | 1.1 | 122       |
| 43 | Selective Propene Epoxidation on Immobilized Au <sub>6–10</sub> Clusters: The Effect of Hydrogen and Water on Activity and Selectivity. Angewandte Chemie - International Edition, 2009, 48, 1467-1471.                      | 7.2 | 246       |
| 44 | Adsorption of Lithium on Finite Graphitic Clusters. Journal of Physical Chemistry C, 2009, 113, 939-941.   | 1.5 | 34        |
| 45 | A Combined Experimental and Theoretical Investigation of Atomic-Scale Defects Produced on Graphite<br>Surfaces by Dielectric Barrier Discharge Plasma Treatment. Journal of Physical Chemistry C, 2009, 113,<br>18719-18729. | 1.5 | 12        |
| 46 | Half-metallic finite zigzag single-walled carbon nanotubes from first principles. Physical Review B, 2008, 78, .   | 1.1 | 42        |
| 47 | Hydrogen storage capacities of nanoporous carbon calculated by density functional and<br>MÃ,ller-Plesset methods. Physical Review B, 2008, 78, .   | 1.1 | 49        |
| 48 | Interaction of narrow carbon nanotubes with nitronium tetrafluoroborate salts. Journal of Chemical Physics, 2008, 128, 214703.   | 1.2 | 6         |
| 49 | Shape of the hydrogen adsorption regions of MOF-5 and its impact on the hydrogen storage capacity.<br>Physical Review B, 2008, 78, .   | 1.1 | 13        |
| 50 | Hydrogen storage in pure and Li-doped carbon nanopores: Combined effects of concavity and doping.<br>Journal of Chemical Physics, 2008, 128, 144704.   | 1.2 | 53        |
| 51 | Stability of silicon-doped C60 dimers. Journal of Chemical Physics, 2007, 126, 044705.   | 1.2 | 13        |
| 52 | The optimum average nanopore size for hydrogen storage in carbon nanoporous materials. Carbon,<br>2007, 45, 2649-2658.   | 5.4 | 168       |
| 53 | Density functional calculations of hydrogen adsorption on boron nanotubes and boron sheets.<br>Nanotechnology, 2006, 17, 778-785.  | 1.3 | 83        |
| 54 | Density functional study of molecular hydrogen coverage on carbon nanotubes. Computational<br>Materials Science, 2006, 35, 238-242.  | 1.4 | 54        |

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|----|---|-----|-----------|
| 55 | Buckling in boron sheets and nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1105-1110.                                     | 0.8 | 22        |
| 56 | Electrostrictive deformations in small carbon clusters, hydrocarbon molecules, and carbon nanotubes. Physical Review A, 2006, 74, .                             | 1.0 | 5         |
| 57 | Structural and thermal stability of narrow and short carbon nanotubes and nanostrips. Carbon, 2005, 43, 1371-1377.  | 5.4 | 38        |
| 58 | Adsorption of hydrogen on normal and pentaheptite single wall carbon nanotubes. European Physical<br>Journal D, 2005, 34, 279-282.                              | 0.6 | 25        |
| 59 | BeB2nanostructures: A density functional study. Physical Review B, 2005, 72, .  | 1.1 | 6         |
| 60 | Simulating the thermal behavior and fragmentation mechanisms of exohedral and substitutional silicon-doped C60. Journal of Chemical Physics, 2005, 123, 204323. | 1.2 | 33        |
| 61 | Theoretical study of the reactivity of cesium with benzene and graphitic CxHy clusters. Journal of<br>Chemical Physics, 2005, 123, 074303.                      | 1.2 | 7         |
| 62 | Enhancement of hydrogen physisorption on graphene and carbon nanotubes by Li doping. Journal of<br>Chemical Physics, 2005, 123, 204721.                         | 1.2 | 247       |
| 63 | Interaction of Molecular and Atomic Hydrogen With Single-Wall Carbon Nanotubes. IEEE<br>Nanotechnology Magazine, 2004, 3, 304-310.                              | 1.1 | 33        |
| 64 | Growth Ability and Stability Indices of Clusters. Journal of Cluster Science, 2003, 14, 31-47.  | 1.7 | 7         |
| 65 | Tight binding studies of exohedral silicon doped C60. Composites Science and Technology, 2003, 63, 1499-1505.   | 3.8 | 8         |
| 66 | Structural and thermal properties of silicon-doped fullerenes. Journal of Chemical Physics, 2003, 119, 1127-1135.   | 1.2 | 39        |
| 67 | Ab initiomolecular dynamics simulations of the two-step melting of NaSn. Physical Review B, 2003, 68, .   | 1.1 | 1         |
| 68 | Analysis of the bonding and reactivity of H and the Al13 cluster using density functional concepts.<br>Journal of Chemical Physics, 2003, 119, 5128-5141.       | 1.2 | 55        |
| 69 | Interaction of molecular and atomic hydrogen with single-wall carbon nanotubes. , 2003, , .   |     | 1         |
| 70 | Deformations and thermal stability of carbon nanotube ropes. , 2003, , .  |     | 1         |
| 71 | Patching and Tearing Single-Wall Carbon-Nanotube Ropes into Multiwall Carbon Nanotubes. Physical<br>Review Letters, 2002, 89, 255501.                           | 2.9 | 52        |
| 72 | Conditions for the self-assembling of cluster materials. Nanotechnology, 2002, 13, 253-257.   | 1.3 | 23        |

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|----|---|-----|-----------|
| 73 | Some Properties of a Model Liquid of C 60 Buckyballs. Physics and Chemistry of Liquids, 2002, 40, 457-467.  | 0.4 | 3         |
| 74 | Interaction of molecular and atomic hydrogen with (5,5) and (6,6) single-wall carbon nanotubes.<br>Journal of Chemical Physics, 2002, 117, 2281-2288.                                     | 1.2 | 198       |
| 75 | Computer simulation of cluster assembling. International Journal of Quantum Chemistry, 2002, 86, 226-238.   | 1.0 | 18        |
| 76 | ELECTRONIC SHELL EFFECTS IN METAL CLUSTERS AND THEIR CONSEQUENCES FOR CLUSTER SELF-ASSEMBLING. , 2002, , 1476-1507.   |     | 2         |
| 77 | Assembling of hydrogenated aluminum clusters. European Physical Journal D, 2001, 16, 285-288.   | 0.6 | 16        |
| 78 | Novel Polygonized Single-Wall Carbon Nanotube Bundles. Physical Review Letters, 2001, 86, 3056-3059.  | 2.9 | 113       |
| 79 | Computer simulation of the spreading of metallic clusters landing at grazing incidence on a metallic surface. Physical Review B, 2000, 62, 16031-16039.                                   | 1.1 | 10        |
| 80 | Interaction of lithium atoms with graphitic walls. AIP Conference Proceedings, 2000, , .  | 0.3 | 0         |
| 81 | Molecular dynamics study of cluster impact on the (001) and (110) surfaces of fcc metals.<br>Computational Materials Science, 2000, 17, 515-519.  | 1.4 | 10        |
| 82 | Molecular-dynamics study of the structural rearrangements of Cu and Au clusters softly deposited on a Cu(001) surface. Physical Review B, 1999, 60, 2908-2915.                            | 1.1 | 59        |
| 83 | On the problem of fitting many-body potentials. I. The minimal maximum error scheme and the paradigm of metal systems. Journal of Chemical Physics, 1999, 110, 8899-8911.                 | 1.2 | 43        |
| 84 | Simulating the thermal stability and phase changes of small carbon clusters and fullerenes. European<br>Physical Journal D, 1999, 6, 221-233.   | 0.6 | 25        |
| 85 | Electronic Structure of Bimetallic Clusters Based on Alkali Elements. Springer Series in Cluster Physics, 1999, , 255-276.  | 0.3 | Ο         |
| 86 | Ab initio calculations for mixed clusters of lead and alkali elements, and implications for the structure of their solid and liquid alloys. Chemical Physics Letters, 1998, 289, 451-456. | 1.2 | 17        |
| 87 | Mixed lead-alkali clusters in the gas phase and in liquid alloys. International Journal of Quantum<br>Chemistry, 1998, 69, 341-348.   | 1.0 | 5         |
| 88 | Magnetic moments of Ni clusters. Physical Review B, 1998, 57, 12469-12475.  | 1.1 | 73        |
| 89 | Comparative ab initio studies of small tin and lead clusters. Annalen Der Physik, 1998, 7, 107-119.   | 0.9 | 35        |
| 90 | Theoretical Study of the Collective Electronic Excitations of the Endohedral Clusters Na N @C780. ,<br>1998, , 133-141.   |     | 0         |

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|-----|--|-----|-----------|
| 91  | Geometrical effects on the magnetism of small Ni clusters. Physical Review B, 1997, 55, 13279-13282.   | 1.1 | 48        |
| 92  | Thermal behaviour of carbon clusters and small fullerenes. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1997, 40, 385-388.                                   | 1.0 | 6         |
| 93  | Study of clusters of interest for liquid ionic alloys. Annalen Der Physik, 1997, 509, 35-44.   | 0.9 | 6         |
| 94  | Ionic vibrational breathing mode of metallic clusters. International Journal of Quantum Chemistry, 1997, 61, 613-626.  | 1.0 | 6         |
| 95  | Thermal road for fullerene annealing. Chemical Physics Letters, 1997, 273, 367-370.  | 1.2 | 29        |
| 96  | Theoretical study of icosahedral Ni clusters within the embedded-atom method. Physical Review B, 1996, 54, 5961-5969.  | 1.1 | 49        |
| 97  | Structural and dynamical properties of Cu–Au bimetallic clusters. Journal of Chemical Physics, 1996, 104, 1056-1066.   | 1.2 | 122       |
| 98  | Theoretical study of the binding of Na clusters encapsulated in theC240fullerene. Physical Review B, 1996, 53, 16059-16066.  | 1.1 | 22        |
| 99  | Vibrational frequencies of sodium clusters. International Journal of Quantum Chemistry, 1995, 56, 589-601.   | 1.0 | 7         |
| 100 | Fragmentation of atomic clusters: A theoretical study. Physical Review A, 1994, 50, 1445-1458.   | 1.0 | 76        |
| 101 | Pion-nucleus elastic scattering in a local approximation to the delta-hole model. Nuclear Physics A, 1991, 526, 685-702.   | 0.6 | 66        |
| 102 | Stability of isomeric Na n clusters. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1991, 19, 141-143.   | 1.0 | 7         |
| 103 | Evaporation rates of hot sodium clusters. , 1991, , 569-572.   |     | 0         |
| 104 | Atomic structure and segregation in alkali-metal heteroclusters. Physical Review B, 1990, 42, 5000-5008.   | 1.1 | 26        |
| 105 | Dissociation channels ofNaN+clusters (3≤â‰97). Physical Review B, 1990, 41, 5595-5601.   | 1.1 | 22        |
| 106 | Structure and energetics ofNanâ^'xLix(nâ‰월1) clusters. Physical Review B, 1990, 41, 5636-5642.   | 1.1 | 21        |
| 107 | Pionic distorsion factors for radiative pion capture studies. Physics Letters, Section B: Nuclear,<br>Elementary Particle and High-Energy Physics, 1989, 222, 329-332. | 1.5 | 3         |
| 108 | Electronic and atomic structure of Na, Mg, Al and Pb clusters. Zeitschrift Für Physik D-Atoms<br>Molecules and Clusters, 1988, 11, 163-174.                            | 1.0 | 85        |