Roy L. Johnston

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

264 12,534 51 102 g-index

279 13,483 4.6 6.7 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|-------------|--|------|-----------|
| 264 | Global minima and structural properties of Au Fe nanoalloys from a Mexican Enhanced Genetic Algorithm-based Density Functional Theory. <i>Chemical Physics Letters</i> , 2021 , 776, 138675 | 2.5 | |
| 263 | Leveraging Hierarchical Self-Assembly Pathways for Realizing Colloidal Photonic Crystals. <i>ACS Nano</i> , 2020 , 14, 5348-5359 | 16.7 | 20 |
| 262 | Effects of Hydration on the Conformational Behavior of Flexible Molecules with Two Charge Centers. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5323-5330 | 2.8 | 1 |
| 261 | Structural and magnetic properties of Co-Pt clusters: A spin-polarized density functional study. Journal of Magnetism and Magnetic Materials, 2020 , 503, 166651 | 2.8 | 3 |
| 26 0 | DFT-Based Global Optimization of Sub-nanometer Ni B d Clusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26583-26596 | 3.8 | 10 |
| 259 | Can a Single Valence Electron Alter the Electrocatalytic Activity and Selectivity for CO2 Reduction on the Subnanometer Scale?. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14591-14609 | 3.8 | 6 |
| 258 | Tuning electronic and composition effects in ruthenium-copper alloy nanoparticles anchored on carbon nanofibers for rechargeable Li-CO2 batteries. <i>Chemical Engineering Journal</i> , 2019 , 375, 121978 | 14.7 | 26 |
| 257 | Gold doping of tin clusters: exo- vs. endohedral complexes. <i>Nanoscale</i> , 2019 , 11, 12878-12888 | 7.7 | 5 |
| 256 | In situ high-potential-driven surface restructuring of ternary AgPd-Pt aerogels with record-high performance improvement for formate oxidation electrocatalysis. <i>Nanoscale</i> , 2019 , 11, 14174-14185 | 7.7 | 45 |
| 255 | Physico-Chemical Insights into Gas-Phase and Oxide-Supported Sub-Nanometre AuCu Clusters. Zeitschrift Fur Physikalische Chemie, 2019 , 233, 813-843 | 3.1 | 6 |
| 254 | GIGA: a versatile genetic algorithm for free and supported clusters and nanoparticles in the presence of ligands. <i>Nanoscale</i> , 2019 , 11, 9042-9052 | 7.7 | 20 |
| 253 | Altering CO binding on gold cluster cations by Pd-doping. <i>Nanoscale</i> , 2019 , 11, 16130-16141 | 7.7 | 14 |
| 252 | Application of a parallel genetic algorithm to the global optimization of medium-sized Au P d sub-nanometre clusters. <i>European Physical Journal B</i> , 2018 , 91, 1 | 1.2 | 10 |
| 251 | Gold-Copper Aerogels with Intriguing Surface Electronic Modulation as Highly Active and Stable Electrocatalysts for Oxygen Reduction and Borohydride Oxidation. <i>ChemSusChem</i> , 2018 , 11, 1354-1364 | 8.3 | 20 |
| 250 | Modelling free and oxide-supported nanoalloy catalysts: comparison of bulk-immiscible Pd-Ir and Au-Rh systems and influence of a TiO support. <i>Faraday Discussions</i> , 2018 , 208, 53-66 | 3.6 | 14 |
| 249 | A theoretical study on the geometry and spectroscopic properties of ground-state and local minima isomers of (CuS)n=2-6 clusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 1-7 | 3 | 9 |
| 248 | Pentameric PdAu and PdPt nanoparticles on the MgO(1 0 0) surface and their CO and O2 adsorption properties. <i>European Physical Journal B</i> , 2018 , 91, 1 | 1.2 | 5 |

| 247 | Theoretical investigation of the structures of unsupported 38-atom CuPt clusters. <i>European Physical Journal B</i> , 2018 , 91, 1 | 1.2 | 7 |
|-----|---|---------|-----------------|
| 246 | Anionic cobalt-platinum-ethynyl (CoPt[12H) metal-organic subnanoparticles: a DFT modeling study. <i>European Physical Journal B</i> , 2018 , 91, 1 | 1.2 | 1 |
| 245 | Theory as a driving force to understand reactions on nanoparticles: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 147-185 | 3.6 | 1 |
| 244 | The challenges of characterising nanoparticulate catalysts: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 339-394 | 3.6 | 4 |
| 243 | Chemical bonding in initial building blocks of semiconductors: Geometrical structures and optical absorption spectra of isolated and Cd species. <i>Journal of Chemical Physics</i> , 2018 , 149, 244308 | 3.9 | 6 |
| 242 | Isomers and energy landscapes of micro-hydrated sulfite and chlorate clusters. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376, | 3 | 3 |
| 241 | The DFT-genetic algorithm approach for global optimization of subnanometer bimetallic clusters. <i>Frontiers of Nanoscience</i> , 2018 , 12, 145-169 | 0.7 | 6 |
| 240 | First principles global optimization of metal clusters and nanoalloys. <i>Advances in Physics: X</i> , 2018 , 3, S10 | 09999 | 15 |
| 239 | AgSn intermetallics as highly selective and active oxygen reduction electrocatalysts in membraneless alkaline fuel cells. <i>Journal of Power Sources</i> , 2018 , 404, 106-117 | 8.9 | 17 |
| 238 | Effect of palladium doping on the stability and fragmentation patterns of cationic gold clusters. <i>Physical Review A</i> , 2018 , 97, | 2.6 | 21 |
| 237 | DFT Global Optimization of Gas-Phase Subnanometer Ru P t Clusters. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10773-10780 | 3.8 | 30 |
| 236 | Activity Trends of Binary Silver Alloy Nanocatalysts for Oxygen Reduction Reaction in Alkaline Media. <i>Small</i> , 2017 , 13, 1603387 | 11 | 38 |
| 235 | One-Pot Synthesis of Dealloyed AuNi Nanodendrite as a Bifunctional Electrocatalyst for Oxygen Reduction and Borohydride Oxidation Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1700260 | 15.6 | 33 |
| 234 | A DFT study of molecular adsorption on titania-supported AuRh nanoalloys. <i>Computational and Theoretical Chemistry</i> , 2017 , 1107, 142-151 | 2 | 14 |
| 233 | Engineering Bimetallic Ag-Cu Nanoalloys for Highly Efficient Oxygen Reduction Catalysts: A Guideline for Designing Ag-Based Electrocatalysts with Activity Comparable to Pt/C-20. <i>Small</i> , 2017 , 13, 1603876 | 11 | 21 |
| 232 | Bifunctional Electrocatalysts for Oxygen Reduction and Borohydride Oxidation Reactions Using AgSn Nanointermetallic for the Ensemble Effect. <i>ACS Applied Materials & Discounty of the Ensemble Effect.</i> ACS Applied Materials & Discounty of the Ensemble Effect. ACS Applied Materials & Discounty of the Ensemb | 1-3:571 | 1 ¹⁸ |
| 231 | DFT study of the structure, chemical ordering and molecular adsorption of Pd-Ir nanoalloys. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27090-27098 | 3.6 | 12 |
| 230 | Study of the stability of small AuRh clusters found by a Genetic Algorithm methodology. Computational and Theoretical Chemistry, 2017, 1119, 51-58 | 2 | 13 |

| 229 | Adsorption of Acetonitrile, Benzene, and Benzonitrile on Pt(111): Single Crystal Adsorption Calorimetry and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21354-21363 | 3.8 | 14 |
|-----|--|-----|----|
| 228 | Reduced Graphene Oxide decorated with Manganese Cobalt Oxide as Multifunctional Material for Mechanically Rechargeable and Hybrid ZincAir Batteries. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700097 | 3.1 | 36 |
| 227 | Size effect on the adsorption and dissociation of CO2 on Co nanoclusters. <i>Applied Surface Science</i> , 2017 , 396, 539-546 | 6.7 | 19 |
| 226 | Investigation of the Structures and Energy Landscapes of Thiocyanate-Water Clusters. <i>Inorganics</i> , 2017 , 5, 20 | 2.9 | 3 |
| 225 | Global Optimisation Strategies for Nanoalloys. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2017 , 1-52 | 0.7 | |
| 224 | DFT global optimisation of gas-phase and MgO-supported sub-nanometre AuPd clusters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26133-26143 | 3.6 | 28 |
| 223 | A comparative study of AumRhn (4 lm + n lb) clusters in the gas phase versus those deposited on (100) MgO. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22122-8 | 3.6 | 10 |
| 222 | Highly active and stable AuNi dendrites as an electrocatalyst for the oxygen reduction reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17828-17837 | 13 | 30 |
| 221 | A silverdopper metallic glass electrocatalyst with high activity and stability comparable to Pt/C for zincdir batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3527-3537 | 13 | 42 |
| 220 | Charge and Compositional Effects on the 2DBD Transition in Octameric AgAu Clusters. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 955-975 | 3.1 | 7 |
| 219 | Global optimization of small bimetallic Pd-Co binary nanoalloy clusters: a genetic algorithm approach at the DFT level. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6676-82 | 3.6 | 32 |
| 218 | Application of a Parallel Genetic Algorithm to the Global Optimization of Gas-Phase and Supported Gold I ridium Sub-Nanoalloys. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3759-3765 | 3.8 | 24 |
| 217 | Pt-free silver nanoalloy electrocatalysts for oxygen reduction reaction in alkaline media. <i>Catalysis Science and Technology</i> , 2016 , 6, 3317-3340 | 5.5 | 75 |
| 216 | A DFT study of molecular adsorption on Au R h nanoalloys. <i>Catalysis Science and Technology</i> , 2016 , 6, 6916-6931 | 5.5 | 20 |
| 215 | Optical Absorption of Small Palladium-Doped Gold Clusters. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 364-372 | 3.1 | 22 |
| 214 | Optical Absorption: Optical Absorption of Small Palladium-Doped Gold Clusters (Part. Part. Syst. Charact. 7/2016). <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 363-363 | 3.1 | |
| 213 | Understanding and controlling the structure and segregation behaviour of AuRh nanocatalysts. <i>Scientific Reports</i> , 2016 , 6, 35226 | 4.9 | 37 |
| 212 | Isomers and Energy Landscapes of Perchlorate-Water Clusters and a Comparison to Pure Water and Sulfate-Water Clusters. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4008-15 | 2.8 | 18 |

| 211 | Structural evolution and metallicity of lead clusters. <i>Nanoscale</i> , 2016 , 8, 11153-60 | 7.7 | 14 |
|-----|--|-------|----|
| 210 | A Threshold-Minimization Scheme for Exploring the Energy Landscape of Biomolecules: Application to a Cyclic Peptide and a Disaccharide. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2471-9 | 6.4 | 5 |
| 209 | O2 Dissociation on [email´protected] CoreBhell Particles for 3d, 4d, and 5d Transition Metals. Journal of Physical Chemistry C, 2015 , 119, 11031-11041 | 3.8 | 35 |
| 208 | Silver-Copper Nanoalloy Catalyst Layer for Bifunctional Air Electrodes in Alkaline Media. <i>ACS Applied Materials & Discours (19</i> , 17782-91) | 9.5 | 60 |
| 207 | The Birmingham parallel genetic algorithm and its application to the direct DFT global optimisation of Ir(N) (N = 10-20) clusters. <i>Nanoscale</i> , 2015 , 7, 14032-8 | 7.7 | 56 |
| 206 | Optical absorption spectra and structures of Ag +6 and Ag +8. <i>European Physical Journal D</i> , 2015 , 69, 1 | 1.3 | 15 |
| 205 | Computational study of the adsorption of benzene and hydrogen on palladiumIridium nanoalloys. Journal of Organometallic Chemistry, 2015 , 792, 190-193 | 2.3 | 7 |
| 204 | Structures and Energy Landscapes of Hydrated Sulfate Clusters. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2377-84 | 6.4 | 27 |
| 203 | Energy landscape exploration of sub-nanometre copper-silver clusters. <i>ChemPhysChem</i> , 2015 , 16, 1461 | -93.2 | 18 |
| 202 | Theoretical study of the structures and chemical ordering of cobalt-palladium nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28311-21 | 3.6 | 32 |
| 201 | The Nature of Bonding between Argon and Mixed Gold-Silver Trimers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10675-80 | 16.4 | 54 |
| 200 | The Effect of Dispersion Correction on the Adsorption of CO on Metallic Nanoparticles. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9703-9 | 2.8 | 48 |
| 199 | Pool-BCGA: a parallelised generation-free genetic algorithm for the ab initio global optimisation of nanoalloy clusters. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2104-12 | 3.6 | 72 |
| 198 | Charge-induced dipole vs. relativistically enhanced covalent interactions in Ar-tagged Au-Ag tetramers and pentamers. <i>Journal of Chemical Physics</i> , 2015 , 143, 024310 | 3.9 | 31 |
| 197 | Chiral effects on helicity studied via the energy landscape of short (D, L)-alanine peptides. <i>Journal of Chemical Physics</i> , 2015 , 143, 165103 | 3.9 | 7 |
| 196 | Zum Charakter der chemischen Bindung von Argonatomen mit gemischten Gold/Silber-Trimeren. <i>Angewandte Chemie</i> , 2015 , 127, 10822-10827 | 3.6 | 6 |
| 195 | Global optimization of 8-10 atom palladium-iridium nanoalloys at the DFT level. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 208-14 | 2.8 | 24 |
| 194 | Pd(n)Ag(4-n) and Pd(n)Pt(4-n) clusters on MgO (100): a density functional surface genetic algorithm investigation. <i>Nanoscale</i> , 2014 , 6, 11777-88 | 7.7 | 31 |

| 193 | Visualizing energy landscapes with metric disconnectivity graphs. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1481-90 | 3.5 | 19 |
|-----|---|-----|----|
| 192 | Support and Oxidation Effects on Subnanometer Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3581-3589 | 3.8 | 19 |
| 191 | Modeling nanoscale inhomogeneities for quantitative HAADF STEM imaging. <i>Physical Review Letters</i> , 2014 , 113, 075501 | 7.4 | 18 |
| 190 | A theoretical study of the structures and optical spectra of helical copper-silver clusters. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21039-48 | 3.6 | 12 |
| 189 | DFT studies of oxygen dissociation on the 116-atom platinum truncated octahedron particle. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26539-45 | 3.6 | 20 |
| 188 | Energy Landscapes and Global Optimization of Self-Assembling Cyclic Peptides. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1810-6 | 6.4 | 14 |
| 187 | Structure and solid solution properties of Cu-Ag nanoalloys. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 275301 | 1.8 | 32 |
| 186 | Optical and electronic properties of mixed Ag-Au tetramer cations. <i>Journal of Chemical Physics</i> , 2014 , 140, 054312 | 3.9 | 39 |
| 185 | Comparative modelling of chemical ordering in palladium-iridium nanoalloys. <i>Journal of Chemical Physics</i> , 2014 , 141, 224307 | 3.9 | 21 |
| 184 | Interfacial Structures and Bonding in Metal-Coated Gold Nanorods. <i>Structure and Bonding</i> , 2014 , 67-90 | 0.9 | 5 |
| 183 | Communication: Global minimum search of Ag with molecular beam optical spectroscopy. Journal of Chemical Physics, 2014 , 141, 181104 | 3.9 | 13 |
| 182 | Influence of spin-orbit effects on structures and dielectric properties of neutral lead clusters. Journal of Chemical Physics, 2014, 140, 164313 | 3.9 | 12 |
| 181 | A DFT study of oxygen dissociation on platinum based nanoparticles. <i>Nanoscale</i> , 2014 , 6, 1153-1165 | 7.7 | 56 |
| 180 | Effect of CO and H adsorption on the compositional structure of binary nanoalloys via DFT modeling. <i>European Physical Journal D</i> , 2013 , 67, 1 | 1.3 | 13 |
| 179 | Theoretical Study of the Structures and Chemical Ordering of Palladium Gold Nanoalloys Supported on MgO(100). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 293-301 | 3.8 | 27 |
| 178 | Improving the Adsorption of Au Atoms and Nanoparticles on Graphite via Li Intercalation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22683-22695 | 3.8 | 4 |
| 177 | Global minimum Pt(13)M(20) (M = Ag, Au, Cu, Pd) dodecahedral core-shell clusters. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 14261-6 | 2.8 | 26 |
| 176 | Structures of small Ti- and V-doped Pt clusters: A GA-DFT study. <i>Computational and Theoretical Chemistry</i> , 2013 , 1021, 91-100 | 2 | 19 |

(2012-2013)

| 175 | A density functional global optimisation study of neutral 8-atom Cu-Ag and Cu-Au clusters. <i>European Physical Journal D</i> , 2013 , 67, 1 | 1.3 | 37 |
|-----|---|------------|-----|
| 174 | Evaluation of photodissociation spectroscopy as a structure elucidation tool for isolated clusters: a case study of Ag4(+) and Au4(+). <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19715-23 | 3.6 | 34 |
| 173 | Determination of the energy landscape of Pd12Pt1 using a combined genetic algorithm and threshold energy method. <i>RSC Advances</i> , 2013 , 3, 11571 | 3.7 | 11 |
| 172 | Direct atomic imaging and density functional theory study of the Au24Pd1 cluster catalyst. <i>Nanoscale</i> , 2013 , 5, 9620-5 | 7.7 | 32 |
| 171 | Symmetrisation schemes for global optimisation of atomic clusters. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3965-76 | 3.6 | 51 |
| 170 | Protein structure optimization with a "Lamarckian" ant colony algorithm. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2013 , 10, 1548-52 | 3 | 3 |
| 169 | DFT study of the structures and energetics of 98-atom AuPd clusters. <i>Nanoscale</i> , 2013 , 5, 646-52 | 7.7 | 52 |
| 168 | Faceting preferences for Au(N) and Pd(N) nanoclusters with high-symmetry motifs. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8392-400 | 3.6 | 9 |
| 167 | Modelling the metal-on-top effect for Pd clusters on the MgO{100} substrate. <i>Journal of Chemical Physics</i> , 2013 , 138, 224703 | 3.9 | 10 |
| 166 | Global optimization of clusters using electronic structure methods. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2091-2109 | 2.1 | 155 |
| 165 | Size-dependent subnanometer Pd cluster (Pd4, Pd6, and Pd17) water oxidation electrocatalysis. <i>ACS Nano</i> , 2013 , 7, 5808-17 | 16.7 | 125 |
| 164 | An atomistic view of the interfacial structures of AuRh and AuPd nanorods. <i>Nanoscale</i> , 2013 , 5, 7452-7 | 7.7 | 42 |
| 163 | A selective blocking method to control the overgrowth of Pt on Au nanorods. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6554-61 | 16.4 | 72 |
| 162 | Computational and experimental investigations into the conformations of cyclic tetra-peptides. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8122-34 | 3.4 | 17 |
| 161 | Exploring the Energy Landscapes of Cyclic Tetrapeptides with Discrete Path Sampling. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 650-657 | 6.4 | 32 |
| 160 | Low-loss optical magnetic metamaterials on AgAu bimetallic fishnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2625-2630 | 2.8 | 6 |
| 159 | Development and optimization of a novel genetic algorithm for identifying nanoclusters from scanning transmission electron microscopy images. <i>Journal of Computational Chemistry</i> , 2012 , 33, 391-4 | ₀ 5 | 15 |
| 158 | Electronic Properties of PtIIi Nanoalloys and the Effect on Reactivity for Use in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15241-15250 | 3.8 | 19 |

| 157 | Overgrowth of Rhodium on Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10312-10317 | 3.8 | 28 |
|-----|---|-------------------|----|
| 156 | Metal Nanoparticles and Nanoalloys. Frontiers of Nanoscience, 2012, 3, 1-42 | 0.7 | 43 |
| 155 | Theoretical studies of Pt-Ti nanoparticles for potential use as PEMFC electrocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3134-9 | 3.6 | 31 |
| 154 | Interdependence of structure and chemical order in high symmetry (PdAu)N nanoclusters. <i>RSC Advances</i> , 2012 , 2, 5863 | 3.7 | 16 |
| 153 | Predicting the Optical Properties of CoreBhell and Janus Segregated AuM Nanoparticles (M = Ag, Pd). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23616-23628 | 3.8 | 30 |
| 152 | Tetrahelix conformations and transformation pathways in Pt1Pd12 clusters. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5235-9 | 2.8 | 14 |
| 151 | Dopant-induced 2D-3D transition in small Au-containing clusters: DFT-global optimisation of 8-atom Au-Ag nanoalloys. <i>Nanoscale</i> , 2012 , 4, 1109-15 | 7.7 | 87 |
| 150 | Nine-Atom Tin-Bismuth Clusters: Mimicking Excess Electrons by Element Substitution. <i>ChemPlusChem</i> , 2012 , 77, 532-535 | 2.8 | 15 |
| 149 | Bismuth-doped tin clusters: experimental and theoretical studies of neutral Zintl analogues. Journal of Physical Chemistry A, 2012 , 116, 7756-64 | 2.8 | 28 |
| 148 | Configuration of microbially synthesized Pd-Au nanoparticles studied by STEM-based techniques. <i>Nanotechnology</i> , 2012 , 23, 055701 | 3.4 | 10 |
| 147 | Note: gas phase structures of bare Si8 and Si11 clusters from molecular beam electric deflection experiments. <i>Journal of Chemical Physics</i> , 2012 , 136, 186101 | 3.9 | 21 |
| 146 | The Effect of Nonnative Interactions on the Energy Landscapes of Frustrated Model Proteins. Journal of Atomic, Molecular, and Optical Physics, 2012 , 2012, 1-9 | | 3 |
| 145 | Energy landscape and global optimization for a frustrated model protein. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11525-9 | 3.4 | 29 |
| 144 | Surface reconstruction precursor to melting in Au309 clusters. <i>AIP Advances</i> , 2011 , 1, 032105 | 1.5 | 5 |
| 143 | Collective plasmon modes in a compositionally asymmetric nanoparticle dimer. <i>AIP Advances</i> , 2011 , 1, 032134 | 1.5 | 44 |
| 142 | TEM characterization of chemically synthesized copper g old nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4229-4237 | 2.3 | 13 |
| 141 | Study of 40-atom PtAu clusters using a combined empirical potential-density functional approach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 2004-207 | 19 ^{2.4} | 34 |
| 140 | Truncated-octahedral copper-gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010 , 241, 0120 | 8 6 .3 | 2 |

(2008-2010)

| 139 | Theoretical and Experimental Studies of the Optical Properties of Conjoined GoldPalladium Nanospheres. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21247-21251 | 3.8 | 13 |
|-----|---|------|-----|
| 138 | Structures and Chemical Ordering of Small CuAg Clusters. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13255-13266 | 3.8 | 81 |
| 137 | The Effect of CO and H Chemisorption on the Chemical Ordering of Bimetallic Clusters. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19678-19686 | 3.8 | 41 |
| 136 | Investigation of the structures and chemical ordering of small Pd-Au clusters as a function of composition and potential parameterisation. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8607-19 | 3.6 | 53 |
| 135 | Energetic and Structural Analysis of 102-Atom Pd P t Nanoparticles: A Composition-Dependent Study. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 199-204 | 0.3 | 9 |
| 134 | Structures and Stabilities of Platinum © old Nanoclusters. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 857-866 | 0.3 | 41 |
| 133 | Plasmonic Properties of Silver Nanoparticles on Two Substrates. <i>Plasmonics</i> , 2009 , 4, 147-152 | 2.4 | 29 |
| 132 | Chemisorption of CO and H on Pd, Pt and Au nanoclusters: a DFT approach. <i>European Physical Journal D</i> , 2009 , 52, 131-134 | 1.3 | 35 |
| 131 | Analysis of the X-ray absorption fine structure near the TiL 2, 3 edge in free titanium nanoclusters. <i>Journal of Surface Investigation</i> , 2009 , 3, 38-40 | 0.5 | O |
| 130 | Small Copper Clusters in Ar Shells: A Study of Local Structure. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9086-9091 | 3.8 | 18 |
| 129 | Structural Insights into 19-Atom Pd/Pt Nanoparticles: A Computational Perspective. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15904-15908 | 3.8 | 20 |
| 128 | Theoretical Studies of Palladium©old Nanoclusters: PdAu Clusters with up to 50 Atoms. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9141-9152 | 3.8 | 144 |
| 127 | Theoretical study of Cu(38-n)Au(n) clusters using a combined empirical potential-density functional approach. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10340-9 | 3.6 | 35 |
| 126 | Three-dimensional atomic-scale structure of size-selected gold nanoclusters. <i>Nature</i> , 2008 , 451, 46-8 | 50.4 | 371 |
| 125 | Nanoalloys: from theory to application. Preface. Faraday Discussions, 2008, 138, 9-10 | 3.6 | 15 |
| 124 | Structures and optical properties of 4-5 nm bimetallic AgAu nanoparticles. <i>Faraday Discussions</i> , 2008 , 138, 363-73; discussion 421-34 | 3.6 | 93 |
| 123 | Energetic, electronic, and thermal effects on structural properties of Ag-Au nanoalloys. <i>ACS Nano</i> , 2008 , 2, 165-75 | 16.7 | 53 |
| 122 | Structural motifs, mixing, and segregation effects in 38-atom binary clusters. <i>Journal of Chemical Physics</i> , 2008 , 128, 134517 | 3.9 | 136 |

| 121 | Dependence of the structures and chemical ordering of PdPt nanoalloys on potential parameters. Journal of Materials Chemistry, 2008 , 18, 4154 | | 40 |
|-----|--|--------------|------|
| 120 | Charge transfer driven surface segregation of gold atoms in 13-atom AuAg nanoalloys and its relevance to their structural, optical and electronic properties. <i>Acta Materialia</i> , 2008 , 56, 2374-2380 | 8.4 | 80 |
| 119 | Martensitic transformations in AgAu bimetallic core-shell nanoalloys. <i>Applied Physics Letters</i> , 2008 , 92, 023112 | 3.4 | 40 |
| 118 | Nanoalloys: from theory to applications of alloy clusters and nanoparticles. <i>Chemical Reviews</i> , 2008 , 108, 845-910 | 68.1 | 2867 |
| 117 | Searching for the optimum structures of alloy nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 640-9 | 3.6 | 170 |
| 116 | Three-dimensional atomic-scale structure of size-selected nanoclusters on surfaces 2008 , 133-134 | | |
| 115 | Structure, Melting, and Thermal Stability of 55 Atom AgAu Nanoalloys. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9157-9165 | 3.8 | 68 |
| 114 | Structures and energetics of 98 atom Pd-Pt nanoalloys: potential stability of the Leary tetrahedron for bimetallic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5202-8 | 3.6 | 77 |
| 113 | Combining Theory and Experiment to Characterize the Atomic Structures of Surface-Deposited Au309 Clusters <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17846-17851 | 3.8 | 31 |
| 112 | Advantages of a redefinition of variable-space in direct-space structure solution from powder x-ray diffraction data. <i>ChemPhysChem</i> , 2007 , 8, 650-3 | 3.2 | 14 |
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