# Robin Chaudret

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12010625/publications.pdf

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|---|---|---|---|
| 21<br>papers | 3,540<br>citations | 759233<br>12<br>h-index | 752698<br>20<br>g-index |
| 21<br>all docs | 21<br>docs citations | 21<br>times ranked | 4450<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | NCIPLOT: A Program for Plotting Noncovalent Interaction Regions. Journal of Chemical Theory and Computation, 2011, 7, 625-632. | 5.3 | 2,897 |
| 2 | Noncovalent Interaction Analysis in Fluctuating Environments. Journal of Chemical Theory and Computation, 2013, 9, 2226-2234. | 5.3 | 150 |
| 3 | Polarizable Molecular Dynamics Simulation of Zn(II) in Water Using the AMOEBA Force Field. Journal of Chemical Theory and Computation, 2010, 6, 2059-2070. | 5.3 | 137 |
| 4 | Coupling Quantum Interpretative Techniques: Another Look at Chemical Mechanisms in Organic Reactions. Journal of Chemical Theory and Computation, 2012, 8, 3993-3997. | 5.3 | 104 |
| 5 | Toward a Deeper Understanding of Enzyme Reactions Using the Coupled ELF/NCI Analysis: Application to DNA Repair Enzymes. Journal of Chemical Theory and Computation, 2013, 9, 2156-2160. | 5.3 | 48 |
| 6 | Manyâ€body exchangeâ€repulsion in polarizable molecular mechanics. I. orbitalâ€based approximations and applications to hydrated metal cation complexes. Journal of Computational Chemistry, 2011, 32, 2949-2957. | 3.3 | 30 |
| 7 | Impact of functionalized linkers on the energy landscape of ZIFs. CrystEngComm, 2013, 15, 9603. | 2.6 | 28 |
| 8 | A Complete NCI Perspective: From New Bonds to Reactivity. Challenges and Advances in Computational Chemistry and Physics, 2016, , 491-527. | 0.6 | 24 |
| 9 | S/G-1: An ab Initio Force-Field Blending Frozen Hermite Gaussian Densities and Distributed Multipoles. Proof of Concept and First Applications to Metal Cations. Journal of Physical Chemistry A, 2014, 118, 7598-7612. | 2.5 | 22 |
| 10 | Correlation between electron localization and metal ion mutagenicity in DNA synthesis from QM/MM calculations. Physical Chemistry Chemical Physics, 2011, 13, 11239. | 2.8 | 18 |
| 11 | Electron Pair Localization Function (EPLF) for Density Functional Theory andab InitioWave Function-Based Methods: A New Tool for Chemical Interpretation. Journal of Chemical Theory and Computation, 2011, 7, 618-624. | 5.3 | 17 |
| 12 | Nonclassical CHâ‹¯Ï€ Supramolecular Interactions in Artemisinic Acid Favor a Single Conformation, Yielding High Diastereoselectivity in the Reduction with Diazene. Journal of Organic Chemistry, 2014, 79, 5939-5947. | 3.2 | 13 |
| 13 | Unraveling Lowâ€Barrier Hydrogen Bonds in Complex Systems with a Simple Quantum Topological Criterion. Chemistry - A European Journal, 2011, 17, 2833-2837. | 3.3 | 11 |
| 14 | Further refinements of next-generation force fields â€" Nonempirical localization of off-centered points in molecules. Canadian Journal of Chemistry, 2013, 91, 804-810. | 1.1 | 10 |
| 15 | Molecular modeling and simulation of Raney Nickel: From alloy precursor to the final porous catalyst. Computational Materials Science, 2015, 99, 336-342. | 3.0 | 9 |
| 16 | Catalytic Mechanism of 4-Oxalocrotonate Tautomerase: Significances of Proteinâ€"Protein Interactions on Proton Transfer Pathways. Journal of Physical Chemistry B, 2012, 116, 6889-6897. | 2.6 | 7 |
| 17 | Revisiting H<sub>2</sub>O Nucleation around Au<sup>+</sup> and Hg<sup>2+</sup>: The Peculiar â€œPseudo-Softâ€•Character of the Gold Cation. Journal of Chemical Theory and Computation, 2014, 10, 1900-1909. | 5.3 | 7 |
| 18 | Pseudobond parameters for QM/MM studies involving nucleosides, nucleotides, and their analogs. Journal of Chemical Physics, 2013, 138, 045102. | 3.0 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Toward a ligand specific of Pb2+ with respect to the Zn2+ and Ca2+ cations: A track from quantum chemistry. Chemical Physics Letters, 2012, 532, 9-12. | 2.6 | 2 |
| 20 | Addressing the Issues of Non-isotropy and Non-additivity in the Development of Quantum Chemistry-Grounded Polarizable Molecular Mechanics. Challenges and Advances in Computational Chemistry and Physics, 2015, , 1-49. | 0.6 | 1 |
| 21 | Influence of the Precursor Composition and Reaction Conditions on Raney-Nickel Catalytic System. Molecular Modeling and Simulation, 2016, , 125-135. | 0.2 | 0 |