

# Albert Rimola

## List of Publications by Year in descending order

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122  
papers

4,215  
citations

101384

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129  
docs citations

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times ranked

4154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica Surface Features and Their Role in the Adsorption of Biomolecules: Computational Modeling and Experiments. <i>Chemical Reviews</i> , 2013, 113, 4216-4313.	23.0	508
2	Design, Selection, and Characterization of Thioflavin-Based Intercalation Compounds with Metal Chelating Properties for Application in Alzheimer's Disease. <i>Journal of the American Chemical Society</i> , 2009, 131, 1436-1451.	6.6	196
3	Hydroxyapatite as a key biomaterial: quantum-mechanical simulation of its surfaces in interaction with biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6309.	1.3	136
4	Seeds Of Life In Space (SOLIS): The Organic Composition Diversity at 300-1000 au Scale in Solar-type Star-forming Regions. <i>Astrophysical Journal</i> , 2017, 850, 176.	1.6	116
5	Affinity Scale for the Interaction of Amino Acids with Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5741-5750.	1.5	105
6	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2017, 605, L3.	2.1	98
7	Ab Initio Modeling of Protein/Biomaterial Interactions: Glycine Adsorption at Hydroxyapatite Surfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 16181-16183.	6.6	97
8	Combined quantum chemical and modeling study of CO hydrogenation on water ice. <i>Astronomy and Astrophysics</i> , 2014, 572, A70.	2.1	87
9	Ground and Low-Lying States of Cu <sup>2+</sup> ·H <sub>2</sub> O. A Difficult Case for Density Functional Methods. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6072-6078.	1.1	85
10	Interaction of Glycine with Isolated Hydroxyl Groups at the Silica Surface: First Principles B3LYP Periodic Simulation. <i>Langmuir</i> , 2006, 22, 6593-6604.	1.6	83
11	Can Formamide Be Formed on Interstellar Ice? An Atomistic Perspective. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 720-734.	1.2	83
12	Crystal structure of thioflavin-T and its binding to amyloid fibrils: insights at the molecular level. <i>Chemical Communications</i> , 2010, 46, 1156.	2.2	78
13	Cation-π Interactions and Oxidative Effects on Cu <sup>+</sup> and Cu <sup>2+</sup> Binding to Phe, Tyr, Trp, and His Amino Acids in the Gas Phase. Insights from First-Principles Calculations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24189-24199.	1.2	77
14	Does Silica Surface Catalyze Peptide Bond Formation? New Insights from First-Principles Calculations. <i>ChemPhysChem</i> , 2006, 7, 157-163.	1.0	77
15	Deep-space glycine formation via Strecker-type reactions activated by ice water dust mantles. A computational approach. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5285.	1.3	77
16	Aluminosilicate Surfaces as Promoters for Peptide Bond Formation: An Assessment of Bernal's Hypothesis by ab Initio Methods. <i>Journal of the American Chemical Society</i> , 2007, 129, 8333-8344.	6.6	75
17	Binding Energies of Interstellar Molecules on Crystalline and Amorphous Models of Water Ice by Ab Initio Calculations. <i>Astrophysical Journal</i> , 2020, 904, 11.	1.6	65
18	Physisorption of aromatic organic contaminants at the surface of hydrophobic/hydrophilic silica geosorbents: a B3LYP-D modeling study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6357.	1.3	60

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19	The (impossible?) formation of acetaldehyde on the grain surfaces: insights from quantum chemical calculations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 459, L6-L10.	1.2	56
20	Reactivity of HCO with CH <sub>3</sub> and NH <sub>2</sub> on Water Ice Surfaces. A Comprehensive Accurate Quantum Chemistry Study. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2158-2170.	1.2	55
21	Thermal Desorption of Interstellar Ices: A Review on the Controlling Parameters and Their Implications from Snowlines to Chemical Complexity. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 597-630.	1.2	55
22	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2017, 605, A57.	2.1	54
23	The mechanism of hexamethylenetetramine (HMT) formation in the solid state at low temperature. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12309.	1.3	52
24	COMPUTATIONAL STUDY OF INTERSTELLAR GLYCINE FORMATION OCCURRING AT RADICAL SURFACES OF WATER-ICE DUST PARTICLES. <i>Astrophysical Journal</i> , 2012, 754, 24.	1.6	51
25	Does Adsorption at Hydroxyapatite Surfaces Induce Peptide Folding? Insights from Large-Scale B3LYP Calculations. <i>Journal of the American Chemical Society</i> , 2012, 134, 10899-10910.	6.6	51
26	How Does Silica Catalyze the Amide Bond Formation under Dry Conditions? Role of Specific Surface Silanol Pairs. <i>ACS Catalysis</i> , 2018, 8, 4558-4568.	5.5	51
27	Neutral vs Zwitterionic Glycine Forms at the Water/Silica Interface: Structure, Energies, and Vibrational Features from B3LYP Periodic Simulations. <i>Langmuir</i> , 2008, 24, 14027-14034.	1.6	47
28	A quantum mechanical study of the reactivity of (SiO) <sub>2</sub> -defective silica surfaces. <i>Journal of Chemical Physics</i> , 2008, 128, 204702.	1.2	45
29	Role of Mineral Surfaces in Prebiotic Chemical Evolution. In <i>Silico Quantum Mechanical Studies</i> . <i>Life</i> , 2019, 9, 10.	1.1	44
30	Quantum Mechanical Investigations on the Formation of Complex Organic Molecules on Interstellar Ice Mantles. Review and Perspectives. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1499-1523.	1.2	41
31	Accretion of Water in Carbonaceous Chondrites: Current Evidence and Implications for the Delivery of Water to Early Earth. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	41
32	Ab initio modeling of protein/biomaterial interactions: competitive adsorption between glycine and water onto hydroxyapatite surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9005.	1.3	40
33	Palladium Nanoparticles Entrapped in Heavily Fluorinated Compounds. <i>Chemistry of Materials</i> , 2006, 18, 716-722.	3.2	38
34	Toward a Surface Science Model for Biology: Glycine Adsorption on Nanohydroxyapatite with Well-Defined Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1390-1394.	2.1	38
35	Glycine Adsorption at Nonstoichiometric (010) Hydroxyapatite Surfaces: A B3LYP Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14561-14567.	1.5	36
36	Formation of hydroxyacetonitrile (HOCH <sub>2</sub> CN) and polyoxymethylene (POM)-derivatives in comets from formaldehyde (CH <sub>2</sub> O) and hydrogen cyanide (HCN) activated by water. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3360-3370.	1.3	36

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37	Radical recombination in interstellar ices, a not so simple mechanism. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2857-2866.	1.3	36
38	Chemical Desorption versus Energy Dissipation: Insights from Ab Initio Molecular Dynamics of HCO <sup>+</sup> Formation. <i>Astrophysical Journal</i> , 2020, 897, 56.	1.6	36
39	Peptide bond formation activated by the interplay of Lewis and Brønsted catalysts. <i>Chemical Physics Letters</i> , 2005, 408, 295-301.	1.2	35
40	Coordination properties of glycylglycine to Cu <sup>+</sup> , Ni <sup>+</sup> and Co <sup>+</sup> . Influence of metal cation electronic configuration. <i>New Journal of Chemistry</i> , 2005, 29, 1585.	1.4	32
41	Is the Peptide Bond Formation Activated by Cu <sup>2+</sup> Interactions? Insights from Density Functional Calculations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5740-5747.	1.2	32
42	Ab initio modelling of protein-biomaterial interactions: influence of amino acid polar side chains on adsorption at hydroxyapatite surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1478-1498.	1.6	30
43	Physisorption vs. chemisorption of probe molecules on boron nitride nanomaterials: the effect of surface curvature. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13190.	1.3	30
44	Amide and Peptide Bond Formation: Interplay between Strained Ring Defects and Silanol Groups at Amorphous Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24817-24826.	1.5	30
45	Interstellar H adsorption and H <sub>2</sub> formation on the crystalline (010) forsterite surface: a B3LYP-D2* periodic study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17447-17457.	1.3	28
46	Canonical, Deprotonated, or Zwitterionic? A Computational Study on Amino Acid Interaction with the TiO <sub>2</sub> (101) Anatase Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14156-14165.	1.5	28
47	Seeds of Life in Space (SOLIS). III. Zooming Into the Methanol Peak of the Prestellar Core L1544*. <i>Astrophysical Journal</i> , 2018, 855, 112.	1.6	28
48	Water Adsorption on MO <sub>2</sub> (M = Ti, Ru, and Ir) Surfaces. Importance of Octahedral Distortion and Cooperative Effects. <i>ACS Omega</i> , 2019, 4, 2989-2999.	1.6	28
49	FAUST I. The hot corino at the heart of the prototypical Class I protostar L1551 IRS5. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 498, L87-L92.	1.2	27
50	Reactivity of Metal Carbenes with Olefins: Theoretical Insights on the Carbene Electronic Structure and Cyclopropanation Reaction Mechanism. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1702-1712.	1.1	26
51	IR spectral fingerprint of carbon monoxide in interstellar water-ice models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 1427-1444.	1.6	26
52	H <sub>2</sub> Formation on Interstellar Grains and the Fate of Reaction Energy. <i>Astrophysical Journal</i> , 2021, 917, 49.	1.6	26
53	Revisiting the reactivity between HCO and CH <sub>3</sub> on interstellar grain surfaces. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2523-2527.	1.6	25
54	Gas phase reactivity of Cu <sup>+</sup> -aromatic amino acids. <i>International Journal of Mass Spectrometry</i> , 2006, 257, 60-69.	0.7	24

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55	Formation versus Hydrolysis of the Peptide Bond from a Quantum-mechanical Viewpoint: The Role of Mineral Surfaces and Implications for the Origin of Life. <i>International Journal of Molecular Sciences</i> , 2009, 10, 746-760.	1.8	24
56	FORMALDEHYDE CHEMISTRY IN COMETARY ICES: ON THE PROSPECTIVE DETECTION OF NH <sub>2</sub> CH <sub>2</sub> OH, HOCH <sub>2</sub> OH, AND POM BY THE ON-BOARD ROSINA INSTRUMENT OF THE <i>ROSETTA</i> MISSION. <i>Astrophysical Journal</i> , 2014, 791, 75.	1.6	24
57	Quantum Mechanical Simulations of the Radicalâ€“Radical Chemistry on Icy Surfaces. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 39.	3.0	24
58	Relevance of silicate surface morphology in interstellar H <sub>2</sub> formation. Insights from quantum chemical calculations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 914-924.	1.6	23
59	When the Surface Matters: Prebiotic Peptideâ€“Bond Formation on the TiO <sub>2</sub> (101) Anatase Surface through Periodic DFTâ€“2 Simulations. <i>Chemistry - A European Journal</i> , 2018, 24, 16292-16301.	1.7	23
60	Influence of Defects in Boron Nitride Nanotubes in the Adsorption of Molecules. Insights from B3LYP-D2* Periodic Simulations. <i>Crystals</i> , 2016, 6, 63.	1.0	22
61	Does Fe <sup>2+</sup> in olivine-based interstellar grains play any role in the formation of H <sub>2</sub> ? Atomistic insights from DFT periodic simulations. <i>Chemical Communications</i> , 2016, 52, 6873-6876.	2.2	22
62	Silicate-mediated interstellar water formation: a theoretical study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 5389-5400.	1.6	22
63	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 637, A63.	2.1	22
64	The role of defective silica surfaces in exogenous delivery of prebiotic compounds: clues from first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2497.	1.3	21
65	Trapping in water â€“ an important prerequisite for complex reactivity in astrophysical ices: the case of acetone (CH <sub>3</sub> ) <sub>2</sub> C=O and ammonia NH <sub>3</sub> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 2991-3000.	1.6	21
66	Formaldehyde chemistry in cometary ices: the case of HOCH <sub>2</sub> OH formation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24200-24208.	1.3	21
67	Forsterite Surfaces as Models of Interstellar Core Dust Grains: Computational Study of Carbon Monoxide Adsorption. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 384-398.	1.2	21
68	Ab Initio Design of Chelating Ligands Relevant to Alzheimerâ€™s Disease: Influence of Metalloaromaticity. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12659-12666.	1.1	20
69	B3LYP Periodic Study of the Physicochemical Properties of the Nonpolar (010) Mg-Pure and Fe-Containing Olivine Surfaces. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5866-5875.	1.1	20
70	Binding Properties of Cu <sup>+2</sup> -(glycyl) <sub>n</sub> glycine Complexes (n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)	1.1	19
71	Search and Characterization of Transition State Structures in Crystalline Systems Using Valence Coordinates. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1341-1350.	2.3	19
72	Insights on the Binding of Thioflavin Derivative Markers to Amyloid-Like Fibril Models from Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6674-6680.	1.2	19

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73	FAUST. II. Discovery of a Secondary Outflow in IRAS 15398 <sup>+</sup> 3359: Variability in Outflow Direction during the Earliest Stage of Star Formation?. <i>Astrophysical Journal</i> , 2021, 910, 11.	1.6	19
74	Non-energetic Formation of Ethanol via CCH Reaction with Interstellar H <sub>2</sub> O Ices. A Computational Chemistry Study. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 496-511.	1.2	19
75	A Theoretical Study on PdII Complexes Containing Hemilabile Pyrazole-Derived Ligands. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 447-454.	1.0	18
76	Intrinsic Ladders of Affinity for Amino-Acid-Analogues on Boron Nitride Nanomaterials: A B3LYP-D2* Periodic Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17707-17717.	1.5	18
77	Theoretical computations on the efficiency of acetaldehyde formation on interstellar icy grains. <i>Astronomy and Astrophysics</i> , 2021, 655, A9.	2.1	18
78	Accurate 3D fireball trajectory and orbit calculation using the 3D- <code>firetoc</code> automatic Python code. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4829-4840.	1.6	17
79	Gas-Phase and Microsolvated Glycine Interacting with Boron Nitride Nanotubes. A B3LYP-D2* Periodic Study. <i>Inorganics</i> , 2014, 2, 334-350.	1.2	15
80	Adsorption of Pharmaceuticals onto Smectite Clay Minerals: A Combined Experimental and Theoretical Study. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 62.	0.8	15
81	In silico strategies for the selection of chelating compounds with potential application in metal-promoted neurodegenerative diseases. <i>Journal of Computer-Aided Molecular Design</i> , 2011, 25, 21-30.	1.3	14
82	Ice chemistry of acetaldehyde reveals competitive reactions in the first step of the Strecker synthesis of alanine: formation of HO <sup>+</sup> CH(CH <sub>3</sub> ) <sup>+</sup> NH <sub>2</sub> vs. HO <sup>+</sup> CH(CH <sub>3</sub> ) <sup>+</sup> CN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1649-1660.	1.6	13
83	BCN-M: A Free Computational Tool for Generating Wulff-like Nanoparticle Models with Controlled Stoichiometry. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1227-1237.	1.5	13
84	Computational Surface Modelling of Ices and Minerals of Interstellar Interest <sup>+</sup> Insights and Perspectives. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 26.	0.8	13
85	Tracing the Primordial Chemical Life of Glycine: A Review from Quantum Chemical Simulations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4252.	1.8	12
86	Luminous efficiency based on FRIPON meteors and limitations of ablation models. <i>Astronomy and Astrophysics</i> , 2021, 650, A159.	2.1	11
87	Study of Fischer <sup>+</sup> Tropsch-type reactions on chondritic meteorites. <i>Astronomy and Astrophysics</i> , 2021, 650, A160.	2.1	11
88	In silico study of the interstellar prebiotic formation and delivery of glycine. <i>Rendiconti Lincei</i> , 2011, 22, 137-144.	1.0	10
89	Strained ring motif at silica surfaces: A quantum mechanical study of their reactivity towards protic molecules. <i>Computational and Theoretical Chemistry</i> , 2015, 1074, 168-177.	1.1	10
90	A plausible link between the asteroid 21 Lutetia and <code>CH</code> carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1795-1812.	0.7	10

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91	Prebiotic Peptide Bond Formation Through Amino Acid Phosphorylation. Insights from Quantum Chemical Simulations. <i>Life</i> , 2019, 9, 75.	1.1	10
92	Coordination of (Glycyl)glycine ( $n=1^3$ ) to $\text{Co}^{2+}$ and $\text{Co}^{2+}$ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 8883-8892.	1.1	9
93	Canonical, deprotonated, or zwitterionic? II. A computational study on amino acid interaction with the $\text{TiO}_2(110)$ rutile surface: comparison with the anatase (101) surface. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16862-16876.	1.3	8
94	Interaction of organic compounds with chondritic silicate surfaces. Atomistic insights from quantum chemical periodic simulations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18217-18231.	1.3	7
95	Using fireball networks to track more frequent reentries: Falcon 9 upper-stage orbit determination from video recordings. <i>Astrodynamics</i> , 2021, 5, 347-358.	1.5	7
96	Misaligned Rotations of the Envelope, Outflow, and Disks in the Multiple Protostellar System of VLA 1623-2417: FAUST. III. <i>Astrophysical Journal</i> , 2022, 927, 54.	1.6	7
97	Surface Reaction of Acetylene with H-Terminated Silicon Surfaces. A Theoretical Study from Hybrid DFT-D2 Periodic Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15130-15138.	1.5	6
98	Multiscale Computational Simulation of Amorphous Silicates™ Structural, Dielectric, and Vibrational Spectroscopic Properties. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 353.	0.8	6
99	Ab Initio Computational Study on $\text{Fe}_2\text{NiP}$ Schreibersite: Bulk and Surface Characterization. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1741-1751.	1.2	6
100	Nucleobase Stacking at Clay Edges, a Favorable Interaction for RNA/DNA Oligomerization. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1023-1033.	1.2	5
101	Interaction of $\text{HCO}^+$ Cations With Interstellar Negative Grains. Quantum Chemical Investigation and Astrophysical Implications. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
102	Luminous efficiency of meteors derived from ablation model after assessment of its range of validity. <i>Astronomy and Astrophysics</i> , 2021, 652, A84.	2.1	5
103	SOLIS. <i>Astronomy and Astrophysics</i> , 2022, 662, A104.	2.1	5
104	Thermal formation of hydroxynitriles, precursors of hydroxyacids in astrophysical ice analogs: Acetone ( $(\text{CH}_3)_2\text{CO}$ ) and hydrogen cyanide (HCN) reactivity. <i>Molecular Astrophysics</i> , 2015, 1, 1-12.	1.7	3
105	Does Processing or Formation of Water Ice Mantles Affect the Capacity of Nanosilicates to Be the Source of Anomalous Microwave Emission?. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
106	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 635, A189.	2.1	2
107	Formation of Interstellar Silicate Dust via Nanocluster Aggregation: Insights From Quantum Chemistry Simulations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2
108	Atomistic Simulations of Aqueous Alteration Processes of Mafic Silicates in Carbonaceous Chondrites. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2017, , 103-127.	0.3	2

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109	Energy signature of ton TNT-class impacts: analysis of the 2018 December 22 fireball over Western Pyrenees. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5716-5733.	1.6	2
110	Binding Energies of N-Bearing Astrochemically-Relevant Molecules on Water Interstellar Ice Models. A Computational Study. <i>Lecture Notes in Computer Science</i> , 2020, , 683-692.	1.0	2
111	First-Principles Modeling of Protein/Surface Interactions. Polyglycine Secondary Structure Adsorption on the TiO <sub>2</sub> (101) Anatase Surface Adopting a Full Periodic Approach. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5484-5498.	2.5	2
112	Computational Simulations of Prebiotic Processes. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 345-362.	0.3	1
113	Computational Investigation on the Thermodynamics of H <sub>2</sub> CO + NH <sub>2</sub> + NH <sub>2</sub> CHO + H on Interstellar Water Ice Surfaces. <i>Lecture Notes in Computer Science</i> , 2021, , 658-666.	1.0	1
114	Ab initio Calculation of Binding Energies of Interstellar Sulphur-Containing Species on Crystalline Water Ice Models. <i>Lecture Notes in Computer Science</i> , 2021, , 608-619.	1.0	1
115	Water Interaction with Fe <sub>2</sub> NiP Schreibersite (110) Surface: a Quantum Mechanical Atomistic Perspective. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2243-2252.	1.5	1
116	Ground and Low-Lying States of Cu <sup>2+</sup> +H <sub>2</sub> O. A Difficult Case for Density Functional Methods.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
117	Modelling of biomaterials: molecular recognition at the surfaces of bioactive glasses. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s4-s4.	0.3	0
118	Insights on the binding of thioflavin derivative markers to amyloid fibril models and A $\beta$ 1-40 fibrils from computational approaches. , 2014, , .		0
119	Formation of Hexamethylenetetramine – Comment. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 215-215.	0.8	0
120	Frontispiece: When the Surface Matters: Prebiotic Peptide-Bond Formation on the TiO <sub>2</sub> (101) Anatase Surface through Periodic DFT-D2 Simulations. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
121	Formamide Dehydration and Condensation on Acidic Montmorillonite: Mechanistic Insights from Ab-Initio Periodic Simulations. <i>Lecture Notes in Computer Science</i> , 2020, , 502-512.	1.0	0
122	A Combined DFT and RRKM-Based Study on the Reactivity of HCO + NH <sub>2</sub> on Amorphous Water Ice Surface. <i>Lecture Notes in Computer Science</i> , 2020, , 561-566.	1.0	0