

# Leonardo Belpassi

## List of Publications by Year in descending order

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120  
papers

4,059  
citations

101543

36  
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138484

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127  
all docs

127  
docs citations

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times ranked

3138  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chemical Bond between Au(I) and the Noble Gases. Comparative Study of NgAuF and NgAu <sup>+</sup> (Ng = Ar, Kr, Xe) by Density Functional and Coupled Cluster Methods. <i>Journal of the American Chemical Society</i> , 2008, 130, 1048-1060.	13.7	260
2	Influence of the dye molecular structure on the TiO <sub>2</sub> conduction band in dye-sensitized solar cells: disentangling charge transfer and electrostatic effects. <i>Energy and Environmental Science</i> , 2013, 6, 183-193.	30.8	247
3	How $\pi$ back-donation quantitatively controls the CO stretching response in classical and non-classical metal carbonyl complexes. <i>Chemical Science</i> , 2016, 7, 1174-1184.	7.4	158
4	Ion Pairing in Cationic Olefin $\pi$ -Gold(I) Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 3170-3171.	13.7	134
5	Revealing Charge-Transfer Effects in Gas-Phase Water Chemistry. <i>Accounts of Chemical Research</i> , 2012, 45, 1571-1580.	15.6	107
6	Solvent-, Silver-, and Acid-Free NHC-Au-X Catalyzed Hydration of Alkynes. The Pivotal Role of the Counterion. <i>ACS Catalysis</i> , 2016, 6, 7363-7376.	11.2	106
7	Counterion Effect in the Reaction Mechanism of NHC Gold(I)-Catalyzed Alkoxylation of Alkynes: Computational Insight into Experiment. <i>ACS Catalysis</i> , 2015, 5, 803-814.	11.2	98
8	A Phosphine Gold(I) $\pi$ -Alkyne Complex: Tuning the Metal $\pi$ -Alkyne Bond Character and Counterion Position by the Choice of the Ancillary Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 3080-3082.	4.0	92
9	On the Dewar $\pi$ -Chatt $\pi$ -Duncanson Model for Catalytic Gold(I) Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 7231-7240.	3.3	91
10	Charge-Transfer Energy in the Water $\pi$ -Hydrogen Molecular Aggregate Revealed by Molecular-Beam Scattering Experiments, Charge Displacement Analysis, and ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 13046-13058.	13.7	80
11	Ligand Effects on Bonding and Ion Pairing in Cationic Gold(I) Catalysts Bearing Unsaturated Hydrocarbons. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4121-4135.	2.0	73
12	The Chemical Bond in Gold(I) Complexes with N-Heterocyclic Carbenes. <i>Organometallics</i> , 2014, 33, 4200-4208.	2.3	73
13	Charge-displacement analysis via natural orbitals for chemical valence: Charge transfer effects in coordination chemistry. <i>Journal of Chemical Physics</i> , 2015, 142, 084112.	3.0	69
14	When the Tolman Electronic Parameter Fails: A Comparative DFT and Charge Displacement Study of [(L)Ni(CO) <sub>3</sub> ] <sup>+</sup> and [(L)Au(CO)] <sup>+</sup> . <i>Inorganic Chemistry</i> , 2014, 53, 9907-9916.	4.0	67
15	Unexpected Anion Effect in the Alkoxylation of Alkynes Catalyzed by N-Heterocyclic Carbene (NHC) Cationic Gold Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 14594-14598.	3.3	63
16	Disentanglement of Donation and Back $\pi$ -Donation Effects on Experimental Observables: A Case Study of Gold $\pi$ -Ethyne Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11599-11602.	13.8	61
17	Extensive Experimental and Computational Study of Counterion Effect in the Reaction Mechanism of NHC-Gold(I)-Catalyzed Alkoxylation of Alkynes. <i>Organometallics</i> , 2016, 35, 641-654.	2.3	61
18	Recent advances and perspectives in four-component Dirac $\pi$ -Kohn $\pi$ -Sham calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12368.	2.8	59

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19	An ab Initio Benchmark and DFT Validation Study on Gold(I)-Catalyzed Hydroamination of Alkynes. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1021-1034.	5.3	57
20	NHC-Gold-Alkyne Complexes: Influence of the Carbene Backbone on the Ion Pair Structure. <i>Organometallics</i> , 2013, 32, 4444-4447.	2.3	56
21	Fluorinated $\hat{\text{I}}^2$ -Diketonate Diglyme Lanthanide Complexes as New Second-Order Nonlinear Optical Chromophores: The Role of f Electrons in the Dipolar and Octupolar Contribution to Quadratic Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2010, 132, 4966-4970.	13.7	55
22	A Quantitative View of Charge Transfer in the Hydrogen Bond: The Water Dimer Case. <i>ChemPhysChem</i> , 2014, 15, 2682-2687.	2.1	55
23	Molecular-Beam Scattering Experiments and Theoretical Calculations Probing Charge Transfer in Weakly Bound Complexes of Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15223-15232.	2.5	53
24	Selectively Measuring $\hat{\text{I}}^2$ Back-Donation in Gold(I) Complexes by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 2467-2473.	3.3	53
25	Experimental Evidence of Chemical Components in the Bonding of Helium and Neon with Neutral Molecules. <i>Chemistry - A European Journal</i> , 2015, 21, 6234-6240.	3.3	53
26	Experimental and theoretical evidence of charge transfer in weakly bound complexes of water. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9970.	2.8	52
27	$\hat{\text{I}}^2$ Activation of Alkynes in Homogeneous and Heterogeneous Gold Catalysis. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5239-5247.	2.5	49
28	Nuclear electric quadrupole moment of gold. <i>Journal of Chemical Physics</i> , 2007, 126, 064314.	3.0	46
29	Unraveling the Anion/Ligand Interplay in the Reaction Mechanism of Gold(I)-Catalyzed Alkoxylation of Alkynes. <i>Organometallics</i> , 2017, 36, 2364-2376.	2.3	45
30	Modulating the Bonding Properties of $\hat{\text{N}}^2$ -Heterocyclic Carbenes (NHCs): A Systematic Charge-Displacement Analysis. <i>Chemistry - A European Journal</i> , 2017, 23, 7558-7569.	3.3	45
31	Ion pairing in NHC gold(I) olefin complexes: A combined experimental/theoretical study. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2679-2686.	1.8	42
32	Density Relaxation in Time-Dependent Density Functional Theory: Combining Relaxed Density Natural Orbitals and Multireference Perturbation Theories for an Improved Description of Excited States. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4014-4024.	5.3	41
33	Strong Electron-Donating Ligands Accelerate the Protodeauration Step in Gold(I)-Catalyzed Reactions: A Quantitative Understanding of the Ligand Effect. <i>Organometallics</i> , 2016, 35, 2275-2285.	2.3	41
34	A combined NMR/DFT study on the ion pair structure of $[(\text{PR})_2\text{R}_2\text{Au}(\text{I}-\text{hexyne})]\text{BF}_4$ complexes. <i>Dalton Transactions</i> , 2013, 42, 4122-4131.	3.3	40
35	Hydration and alkoxylation of alkynes catalyzed by NHC-AuOTf. <i>Green Chemistry</i> , 2018, 20, 2125-2134.	9.0	40
36	Catching the role of anisotropic electronic distribution and charge transfer in halogen bonded complexes of noble gases. <i>Journal of Chemical Physics</i> , 2015, 142, 184304.	3.0	39

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37	<sup>13</sup> C-NMR Spectroscopy of $\pi$ -Heterocyclic Carbenes Can Selectively Probe $\sigma$ Donation in Gold(I) Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 2722-2728.	3.3	38
38	Electron density fitting for the Coulomb problem in relativistic density-functional theory. <i>Journal of Chemical Physics</i> , 2006, 124, 124104.	3.0	36
39	The Electronic Structure of Alkali Aurides. A Four-Component Dirac-Kohn-Sham Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4543-4554.	2.5	33
40	Dioxygen insertion into the gold-hydride bond: spin orbit coupling effects in the spotlight for oxidative addition. <i>Chemical Science</i> , 2016, 7, 7034-7039.	7.4	33
41	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble Gas-Chlorine Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4195-4199.	13.8	33
42	Spectroscopic properties of cyclometallated iridium complexes by TDDFT. <i>Computational and Theoretical Chemistry</i> , 2009, 914, 74-86.	1.5	31
43	Nature and Stability of Weak Halogen Bonds in the Gas Phase: Molecular Beam Scattering Experiments and Ab Initio Charge Displacement Calculations. <i>Crystal Growth and Design</i> , 2011, 11, 4279-4283.	3.0	30
44	Quantitative assessment of the carbocation/carbene character of the gold-carbene bond. <i>Dalton Transactions</i> , 2015, 44, 13999-14007.	3.3	29
45	Relationship between the anion/cation relative orientation and the catalytic activity of nitrogen acyclic carbene-gold catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 1558-1567.	4.1	28
46	An Efficient Parallel All-Electron Four-Component Dirac-Kohn-Sham Program Using a Distributed Matrix Approach. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 384-394.	5.3	27
47	Advances in Charge Displacement Analysis. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1236-1244.	5.3	27
48	Charge-displacement analysis for excited states. <i>Journal of Chemical Physics</i> , 2014, 140, 054110.	3.0	26
49	Reactivity of a Gold-Alumanyl Complex with Carbon Dioxide: A Nucleophilic Gold?. <i>Journal of the American Chemical Society</i> , 2021, 143, 14433-14437.	13.7	26
50	Anomalous ligand effect in gold(i)-catalyzed intramolecular hydroamination of alkynes. <i>Chemical Communications</i> , 2015, 51, 5990-5993.	4.1	24
51	Helium Accepts Back-Donation In Highly Polar Complexes: New Insights into the Weak Chemical Bond. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3334-3340.	4.6	24
52	Back-Donation in High-Valent d0 Metal Complexes: Does It Exist? The Case of NbV. <i>Inorganic Chemistry</i> , 2017, 56, 11266-11274.	4.0	24
53	Insight into the halogen-bond nature of noble gas-chlorine systems by molecular beam scattering experiments, <i>ab initio</i> calculations and charge displacement analysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7330-7340.	2.8	24
54	BERTHA: Implementation of a four-component Dirac-Kohn-Sham relativistic framework. <i>Journal of Chemical Physics</i> , 2020, 152, 164118.	3.0	24

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55	Charge-Displacement Analysis of the Interaction in the Ammonia–Noble Gas Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14657-14666.	2.5	23
56	Spin-Forbidden Reactions: Adiabatic Transition States Using Spin-Orbit Coupled Density Functional Theory. <i>Chemistry - A European Journal</i> , 2018, 24, 5006-5015.	3.3	23
57	H <sub>2</sub> O–CH <sub>4</sub> and H <sub>2</sub> S–CH <sub>4</sub> complexes: a direct comparison through molecular beam experiments and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30613-30623.	2.8	22
58	Charge-Displacement Analysis via Natural Orbitals for Chemical Valence in the Four-Component Relativistic Framework. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1286-1296.	5.3	22
59	All-electron four-component Dirac-Kohn-Sham procedure for large molecules and clusters containing heavy elements. <i>Physical Review B</i> , 2008, 77, .	3.2	21
60	Molecular-beam study of the ammonia–noble gas systems: Characterization of the isotropic interaction and insights into the nature of the intermolecular potential. <i>Journal of Chemical Physics</i> , 2011, 135, 194301.	3.0	21
61	Efficient Parallel All-Electron Four-Component Dirac–Kohn–Sham Program Using a Distributed Matrix Approach II. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5356-5364.	5.3	21
62	Full Parallel Implementation of an All-Electron Four-Component Dirac–Kohn–Sham Program. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3766-3776.	5.3	21
63	Ligand Effect on Bonding in Gold(III) Carbonyl Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6161-6175.	4.0	21
64	Oligothiophenes Nano-Organized on a Cyclotetrasiloxane Scaffold as a Model of a Silica-Bound Monolayer: Evidence for Intramolecular Excimer Formation. <i>Chemistry - A European Journal</i> , 2009, 15, 12791-12798.	3.3	20
65	Interaction of O <sub>2</sub> with CH <sub>4</sub> , CF <sub>4</sub> , and CCl <sub>4</sub> by Molecular Beam Scattering Experiments and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5197-5207.	2.5	20
66	Computational strategies for a four-component Dirac–Kohn–Sham program: Implementation and first applications. <i>Journal of Chemical Physics</i> , 2005, 122, 184109.	3.0	19
67	Poisson-transformed density fitting in relativistic four-component Dirac–Kohn–Sham theory. <i>Journal of Chemical Physics</i> , 2008, 128, 124108.	3.0	19
68	The ligand effect on the oxidative addition of dioxygen to gold(III)–hydride complexes. <i>Dalton Transactions</i> , 2017, 46, 11679-11690.	3.3	19
69	Cyclization of 2-Alkynyldimethylaniline on Gold(I) Cationic and Neutral Complexes. <i>Organometallics</i> , 2016, 35, 595-604.	2.3	18
70	Cationic Gold(I) Diarylallenylidene Complexes: Bonding Features and Ligand Effects. <i>ChemPhysChem</i> , 2019, 20, 1671-1679.	2.1	18
71	Alkyne Activation with Gold(III) Complexes: A Quantitative Assessment of the Ligand Effect by Charge-Displacement Analysis. <i>Inorganic Chemistry</i> , 2019, 58, 3115-3129.	4.0	18
72	Diffusion NMR measurements on cationic linear gold(I) complexes. <i>Polyhedron</i> , 2015, 92, 52-59.	2.2	17

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73	Goldâ€“superheavy-element interaction in diatomics and cluster adducts: A combined four-component Dirac-Kohn-Sham/charge-displacement study. <i>Journal of Chemical Physics</i> , 2015, 143, 024307.	3.0	17
74	The Chemical Bond and sâ€“d Hybridization in Coinage Metal(I) Cyanides. <i>Inorganic Chemistry</i> , 2019, 58, 11716-11729.	4.0	17
75	PyBERTHART: A Relativistic Real-Time Four-Component TDDFT Implementation Using Prototyping Techniques Based on Python. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2410-2429.	5.3	17
76	Charge Displacement Analysisâ€“A Tool to Theoretically Characterize the Charge Transfer Contribution of Halogen Bonds. <i>Molecules</i> , 2020, 25, 300.	3.8	17
77	Leading Interaction Components in the Structure and Reactivity of Noble Gases Compounds. <i>Molecules</i> , 2020, 25, 2367.	3.8	17
78	The gold( <i>iii</i> )â€“CO bond: a missing piece in the gold carbonyl complex landscape. <i>Chemical Communications</i> , 2017, 53, 1603-1606.	4.1	16
79	Cooperative role of halogen and hydrogen bonding in the stabilization of water adducts with apolar molecules. <i>New Journal of Chemistry</i> , 2018, 42, 10603-10614.	2.8	16
80	Intermolecular Interaction in the NH <sub>3</sub> â€“H <sub>2</sub> and H <sub>2</sub> Oâ€“H <sub>2</sub> Complexes by Molecular Beam Scattering Experiments: The Role of Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12601-12607.	2.5	15
81	Intermolecular Interaction in the H <sub>2</sub> Sâ€“H <sub>2</sub> Complex: Molecular Beam Scattering Experiments and Ab-Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6440-6450.	2.5	15
82	Parallelization of a relativistic DFT code. <i>Future Generation Computer Systems</i> , 2004, 20, 739-747.	7.5	14
83	An indirect approach to the determination of the nuclear quadrupole moment by four-component relativistic DFT in molecular calculations. <i>Chemical Physics Letters</i> , 2007, 442, 233-237.	2.6	14
84	Merging of E2 and E1cb Reaction Mechanisms: A Combined Theoretical and Experimental Study. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5501-5504.	2.4	13
85	Spinâ€“orbit coupling is the key to unraveling intriguing features of the halogen bond involving astatine. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1897-1910.	2.8	13
86	On the role of charge transfer in the stabilization of weakly bound complexes involving water and hydrogen sulphide molecules. <i>Chemical Physics</i> , 2012, 398, 176-185.	1.9	12
87	Understanding the Reactivity of Mn-Oxo Porphyrins for Substrate Hydroxylation: Theoretical Predictions and Experimental Evidence Reconciled. <i>Inorganic Chemistry</i> , 2019, 58, 7345-7356.	4.0	12
88	Environmental Effects with Frozen-Density Embedding in Real-Time Time-Dependent Density Functional Theory Using Localized Basis Functions. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5695-5711.	5.3	12
89	What Singles out Aluminyl Anions? A Comparative Computational Study of the Carbon Dioxide Insertion Reaction in Goldâ€“Aluminyl, â€“Gallyl, and â€“Indyl Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 1704-1716.	4.0	11
90	Modelling Charge Transfer in Weak Chemical Bonds: Insights from the Chemistry of Helium. <i>ChemPhysChem</i> , 2018, 19, 1476-1485.	2.1	10

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91	Spin-Forbidden Reactivity of Transition Metal Oxo Species: Exploring the Potential Energy Surfaces. <i>Chemistry - A European Journal</i> , 2020, 26, 3080-3089.	3.3	10
92	Hydration of alkynes catalyzed by [Au(X)(L)(ppy)]X in the green solvent $\gamma$ -valerolactone under acid-free conditions: the importance of the pre-equilibrium step. <i>Catalysis Science and Technology</i> , 2020, 10, 7757-7767.	4.1	10
93	Gold-Alumanyl and Gold-Diarylboryl Complexes: Bonding and Reactivity with Carbon Dioxide. <i>Inorganic Chemistry</i> , 2022, 61, 7327-7337.	4.0	10
94	An <i>ab initio</i> electronic density study of the CH <sub>4</sub> <sup>+</sup> Ar, CH <sub>4</sub> <sup>+</sup> Xe, CH <sub>4</sub> <sup>+</sup> H <sub>2</sub> O and CH <sub>4</sub> <sup>+</sup> H <sub>2</sub> S complexes: insights into the nature of the intermolecular interaction. <i>Molecular Physics</i> , 2015, 113, 3992-3999.	1.7	9
95	The nature of the lead-iodine bond in Pbl <sub>2</sub> : A case study for the modelling of lead halide perovskites. <i>Computational and Theoretical Chemistry</i> , 2019, 1164, 112558.	2.5	9
96	Disentanglement of orthogonal hydrogen and halogen bonds via natural orbital for chemical valence: A charge displacement analysis. <i>Journal of Computational Chemistry</i> , 2020, 41, 1185-1193.	3.3	8
97	Unraveling differences in alumanyl and carbene coordination chemistry: bonding in gold complexes and reactivity with carbon dioxide. <i>Chemical Science</i> , 2022, 13, 4623-4634.	7.4	8
98	An $\text{ETS}^{\text{NOCV}}$ -based computational strategies for the characterization of concerted transition states involving $\text{CO}_2$ . <i>Journal of Computational Chemistry</i> , 2022, 43, 717-727.	3.3	7
99	Ubiquity of <i>cis</i> -Halide $\pi$ Isocyanide Direct Interligand Interaction in Organometallic Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 14554-14563.	4.0	6
100	Spin-resolved charge displacement analysis as an intuitive tool for the evaluation of cPCET and HAT scenarios. <i>Chemical Communications</i> , 2020, 56, 12146-12149.	4.1	6
101	Halogen bond interaction: Role of hybridization and induction. <i>Chemical Physics Letters</i> , 2021, 771, 138522.	2.6	6
102	Tuning the Gold(I)-Carbon $\sigma$ Bond in Gold-Alkynyl Complexes through Structural Modifications of the NHC Ancillary Ligand: Effect on Spectroscopic Observables and Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2401-2416.	2.0	5
103	DFT studies of $\beta$ -elimination reactions in water solution with different bases: Theory vs experiment. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 103-114.	1.5	4
104	Chemical Bond Mechanism for Helium Revealed by Electronic Excitation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6572-6577.	2.5	4
105	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble-Gas-Chlorine Systems. <i>Angewandte Chemie</i> , 2019, 131, 4239-4243.	2.0	4
106	Turn-off and -on fluorescence switching of a self-assembled sensor for mercury(II) induced by anionic micelles. <i>Dyes and Pigments</i> , 2020, 173, 107959.	3.7	4
107	Fluorescent signal transduction in a self-assembled Hg <sub>2</sub> <sup>+</sup> chemosensor tuned by various interactions in micellar aqueous environment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112276.	3.9	4
108	Orbital Decomposition of the Carbon Chemical Shielding Tensor in Gold(I) N-heterocyclic Carbene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1177-1183.	2.0	4



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109	The mechanism of the gold( $\langle \text{sc} \rangle \text{i} \langle \text{sc} \rangle$ )-catalyzed Meyer-Schuster rearrangement of 1-phenyl-2-propyn-1-ol $\langle \text{i} \rangle \text{via} \langle \text{i} \rangle$ 4- $\langle \text{i} \rangle \text{endo-dig} \langle \text{i} \rangle$ cyclization. Dalton Transactions, 2021, 50, 5154-5160.	3.3	4
110	Monitoring of the Pre-Equilibrium Step in the Alkyne Hydration Reaction Catalyzed by Au(III) Complexes: A Computational Study Based on Experimental Evidences. Molecules, 2021, 26, 2445.	3.8	4
111	Efficient Computation of Geometries for Gold Complexes. ChemPhysChem, 2021, 22, 1262-1268.	2.1	4
112	Experimental and theoretical investigation of the cycloisomerization of N-propargylcarboxamide catalyzed by NHC-Au-X in green solvents. Inorganica Chimica Acta, 2021, 522, 120372.	2.4	4
113	Relativistic quantum chemistry involving heavy atoms. Rendiconti Lincei, 2018, 29, 209-217.	2.2	3
114	Spectroscopic/Bond Property Relationship in Group 11 Dihydrides via Relativistic Four-Component Methods. Journal of Physical Chemistry A, 2020, 124, 10565-10579.	2.5	3
115	CHAPTER 26. Role of Ion Pairing in the Mechanisms of Au(i)-catalysed Reactions: Theory and Experiment. RSC Catalysis Series, 2019, , 564-578.	0.1	2
116	BERTHA and PyBERTHA: State of the Art for Full Four-Component Dirac-Kohn-Sham Calculations. Advances in Parallel Computing, 2020, , .	0.3	2
117	Charge Transfer in Beryllium Bonds and Cooperativity of Beryllium and Halogen Bonds. A New Perspective. Challenges and Advances in Computational Chemistry and Physics, 2016, , 461-489.	0.6	1
118	Ground and excited electronic states of AuH $\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ $\langle \text{i} \rangle \text{via} \langle \text{i} \rangle$ detachment energies on AuH $\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ $\langle \text{sup} \rangle \hat{\text{a}} \langle \text{sup} \rangle$ using state-of-the-art relativistic calculations. Physical Chemistry Chemical Physics, 2020, 22, 26742-26752.	2.8	1
119	Frontispiece: Spin-Forbidden Reactions: Adiabatic Transition States Using Spin-Orbit Coupled Density Functional Theory. Chemistry - A European Journal, 2018, 24, .	3.3	0
120	Donation and back-donation in cis- and trans-[( $\hat{\text{i}}\text{-5-C5H5}$ )Fe( $\hat{\text{i}}\text{-1-CO}$ )( $\hat{\text{i}}\text{1/4-CO}$ )] $\langle \text{2} \rangle$ tautomers: Which relative is more generous? An ETS-NOCV bond analysis. Inorganica Chimica Acta, 2022, 536, 120897.	2.4	0