Bartosz Trzaskowski

List of Publications by Year
in descending order

111 papers	2,784 citations	236612 25 h-index	205818 48 g-index
112 all docs	112 docs citations	112 times ranked	3242 citing authors

#	Article	IF	Citations
1	The Interplay of Conjugation and Metal Coordination in Tuning the Electron Transfer Abilities of NTA-Graphene Based Interfaces. International Journal of Molecular Sciences, 2022, 23, 543.	1.8	1
2	Olefin Metathesis Catalyzed by a Hoveydaâ€“Grubbs-like Complex Chelated to Bis(2-mercaptoimidazolyl) Methane: A Predictive DFT Study. Journal of Physical Chemistry A, 2022, 126, 720-732.	1.1	5
3	Structural and Electronic Properties of Boranes Containing Boronâ€Chalcogen Multiple Bonds and Stabilized by Amido Imidazolineâ€2â€imine Ligands. Chemistry - A European Journal, 2022, 28, .	1.7	8
4	Ruthenium Olefin Metathesis Catalysts Bearing a Macrocyclic Nâ€Heterocyclic Carbene Ligand: Improved Stability and Activity. Angewandte Chemie - International Edition, 2022, 61, .	7.2	7
5	Performance of electrochemical immunoassays for clinical diagnostics of SARS-CoV-2 based on selective nucleocapsid N protein detection: Boron-doped diamond, gold and glassy carbon evaluation. Biosensors and Bioelectronics, 2022, 209, 114222.	5.3	23
6	Reactions of a Fourâ€Membered Borete with Carbon, Silicon, and Gallium Donor Ligands: Fused and Spiroâ€Type Boracycles. Chemistry - A European Journal, 2022, 28, .	1.7	9
7	Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. Chemistry of Materials, 2022, 34, 3744-3758.	3.2	2
8	Superseding Î²â€Diketiminato Ligands: An Amido Imidazolineâ€2â€imine Ligand Stabilizes the Exhaustive Series of B=X Boranes (X=O, S, Se, Te). Angewandte Chemie - International Edition, 2021, 60, 4633-4639.	7.2	25
9	Superseding Î²â€Diketiminato Ligands: An Amido Imidazolineâ€2â€imine Ligand Stabilizes the Exhaustive Series of B=X Boranes (X=O, S, Se, Te). Angewandte Chemie, 2021, 133, 4683-4689.	1.6	12
10	â€œGive me fiveâ€•â€“ an amino imidazoline-2-imine ligand stabilises the first neutral five-membered cyclic triel(<scp>i</scp>) carbenoides. Chemical Communications, 2021, 57, 2816-2819.	2.2	13
11	Correction: â€œGive me fiveâ€•â€“ an amino imidazoline-2-imine ligand stabilises the first neutral five-membered cyclic triel(i) carbenoids. Chemical Communications, 2021, 57, 3824-3824.	2.2	1
12	Design, Synthesis, and Biological Evaluation of a Series of 5- and 7-Hydroxycoumarin Derivatives as 5-HT1A Serotonin Receptor Antagonists. Pharmaceuticals, 2021, 14, 179.	1.7	2
13	Enhancement of direct electron transfer in graphene bioelectrodes containing novel cytochrome c variants with optimized heme orientation. Bioelectrochemistry, 2021, 140, 107818.	2.4	7
14	Development of a universal conductive platform for anchoring photo- and electroactive proteins using organometallic terpyridine molecular wires. Nanoscale, 2021, 13, 9773-9787.	2.8	7
15	Molecular mechanism of direct electron transfer in the robust cytochrome-functionalised graphene nanosystem. RSC Advances, 2021, 11, 18860-18869.	1.7	3
16	Molecular Modeling of Mechanisms of Decomposition of Ruthenium Metathesis Catalysts by Acrylonitrile. Organometallics, 2020, 39, 239-246.	1.1	15
17	Disentangling the role of solvent polarity and protein solvation in folding and self-assembly of Î±-lactalbumin. Journal of Colloid and Interface Science, 2020, 561, 749-761.	5.0	12
18	Cross metathesis with acrylates: N â€heterocyclic carbene (NHC)â€versus cyclic alkyl amino carbene (CAAC)â€based ruthenium catalysts, an unanticipated influence of the carbene type on efficiency and selectivity of the reaction. ChemCatChem, 2020, 12, 6366-6374.	1.8	7

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19	Decomposition of Ruthenium Olefin Metathesis Catalyst. Catalysts, 2020, 10, 887.	1.6	45
20	Sterically Tuned N-Heterocyclic Carbene Ligands for the Efficient Formation of Hindered Products in Ru-Catalyzed Olefin Metathesis. ACS Catalysis, 2020, 10, 11394-11404.	5.5	17
21	6-Acetyl-5-hydroxy-4,7-dimethylcoumarin derivatives: Design, synthesis, modeling studies, 5-HT1A, 5-HT2A and D2 receptors affinity. Bioorganic Chemistry, 2020, 100, 103912.	2.0	8
22	Impact of the olefin structure on the catalytic cycle and decomposition rates of Hoveydaâ€“Grubbs metathesis catalysts. Physical Chemistry Chemical Physics, 2020, 22, 13062-13069.	1.3	9
23	Impact of the Carbene Derivative Charge on the Decomposition Rates of Hoveydaâ€“Grubbs-like Metathesis Catalysts. Journal of Physical Chemistry A, 2020, 124, 6158-6167.	1.1	9
24	Synthesis and antiâ€“tumour, immunomodulating activity of diosgenin and tigogenin conjugates. Journal of Steroid Biochemistry and Molecular Biology, 2020, 198, 105573.	1.2	29
25	The anti-inflammatory potential of cefazolin as common gamma chain cytokine inhibitor. Scientific Reports, 2020, 10, 2886.	1.6	13
26	Rate-Limiting Steps in the Intramolecular Câ€“H Activation of Ruthenium N-Heterocyclic Carbene Complexes. Journal of Physical Chemistry A, 2020, 124, 3609-3617.	1.1	7
27	Architecture and Function of Biohybrid Solar Cell and Solar-to-Fuel Nanodevices. Springer Series in Materials Science, 2020, , 227-274.	0.4	2
28	2-Methyltetrahydrofuran as a Solvent of Choice for Spontaneous Metathesis/Isomerization Sequence. ACS Omega, 2019, 4, 1831-1837.	1.6	12
29	Role of Metal Centers in Tuning the Electronic Properties of Graphene-Based Conductive Interfaces. Journal of Physical Chemistry C, 2019, 123, 8623-8632.	1.5	11
30	Specialized Ruthenium Olefin Metathesis Catalysts Bearing Bulky Unsymmetrical NHC Ligands: Computations, Synthesis, and Application. ACS Catalysis, 2019, 9, 587-598.	5.5	50
31	Ruthenium-Catalysed Olefin Metathesis in Environmentally Friendly Solvents: 2-Methyltetrahydrofuran Revisited. European Journal of Organic Chemistry, 2019, 2019, 640-646.	1.2	18
32	Efficient glycosylation of natural Danshensu and its enantiomer by sugar and 2-deoxy sugar donors. Carbohydrate Research, 2018, 460, 19-28.	1.1	0
33	Azoliniums, Adducts, NHCs and Azomethine Ylides: Divergence in Wanzlick Equilibrium and Olefin Metathesis Catalyst Formation. Chemistry - A European Journal, 2018, 24, 4785-4789.	1.7	16
34	Controlling the charge transfer flow at the graphene/pyreneâ€“nitrilotriacetic acid interface. Journal of Materials Chemistry C, 2018, 6, 5046-5054.	2.7	18
35	Boronâ€“boron, carbonâ€“carbon and nitrogenâ€“nitrogen bonding in N-heterocyclic carbenes and their diazaboryl and triazole analogues: Wanzlick equilibrium revisited. New Journal of Chemistry, 2018, 42, 6183-6190.	1.4	7
36	5-HT1A and 5-HT2A receptors affinity, docking studies and pharmacological evaluation of a series of 8-acetyl-7-hydroxy-4-methylcoumarin derivatives. Bioorganic and Medicinal Chemistry, 2018, 26, 527-535.	1.4	18

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37	The influence of the cationic carbenes on the initiation kinetics of ruthenium-based metathesis catalysts; a DFT study. Beilstein Journal of Organic Chemistry, 2018, 14, 2872-2880.	1.3	13
38	Assessing the Charge Transfer at the Cytochrome c₅₅₃/Graphene Interface: A Multiscale Investigation. Journal of Physical Chemistry C, 2018, 122, 29405-29413.	1.5	9
39	Probing the Mâ€“C_{NHC} Bond and Its Effect on the Synthesis, Structure, and Reactivity of R₂MOR(NHC) (M = Al, Ga, In) Complexes. Organometallics, 2018, 37, 4585-4598.	1.1	10
40	Ruthenium Olefin Metathesis Catalysts Systematically Modified in Chelating Benzylidene Ether Fragment: Experiment and Computations. European Journal of Inorganic Chemistry, 2018, 2018, 3675-3685.	1.0	12
41	Pharmacophore guided discovery of small-molecule interleukin 15 inhibitors. European Journal of Medicinal Chemistry, 2017, 136, 543-547.	2.6	9
42	Faster initiating olefin metathesis catalysts from introducing double bonds into cyclopropyl, cyclobutyl and cyclopentyl derivatives of Hoveyda-Grubbs precatalysts. Molecular Catalysis, 2017, 433, 313-320.	1.0	10
43	A computational study of structures and catalytic activities of Hoveyda-Grubbs analogues bearing coumarin or isopropoxycoumarin moiety. Catalysis Communications, 2017, 91, 43-47.	1.6	10
44	Development of selective agents targeting serotonin 5HT1A receptors with subnanomolar activities based on a coumarin core. MedChemComm, 2017, 8, 1690-1696.	3.5	8
45	Hoveydaâ€“Grubbs catalyst analogues bearing the derivatives of N-phenylpyrrol in the carbene ligand â€“ structure, stability, activity and unique rutheniumâ€“phenyl interactions. Dalton Transactions, 2017, 46, 11790-11799.	1.6	17
46	Cyclic Alkyl Amino Ruthenium Complexesâ€”Efficient Catalysts for Macrocyclization and Acrylonitrile Cross Metathesis. ACS Catalysis, 2017, 7, 5443-5449.	5.5	72
47	Geodesic Arenes. , 2016, , 115-139.		0
48	Hoveyda-Grubbs complexes with boryl anions are predicted to be fast metathesis catalysts. Catalysis Communications, 2016, 86, 133-138.	1.6	12
49	Structural analogues of Hoveydaâ€“Grubbs catalysts bearing the 1-benzofuran moiety or isopropoxy-1-benzofuran derivatives as olefin metathesis catalysts. RSC Advances, 2016, 6, 21423-21429.	1.7	10
50	Molecular effects of encapsulation of glucose oxidase dimer by graphene. RSC Advances, 2015, 5, 13570-13578.	1.7	19
51	Conformational Flexibility of Hoveyda-Type and Grubbs-Type Complexes Bearing Acyclic Carbenes and Its Impact on Their Catalytic Properties. Organometallics, 2015, 34, 563-570.	1.1	23
52	Dialkylgallium Alkoxides Stabilized with N-Heterocyclic Carbenes: Opportunities and Limitations for the Controlled and Stereoselective Polymerization of rac-Lactide. Organometallics, 2015, 34, 3480-3496.	1.1	42
53	Nano-Encapsulation of Glucose Oxidase Dimer by Graphene. Materials Research Society Symposia Proceedings, 2015, 1725, 1.	0.1	1
54	Nitrenium ions and trivalent boron ligands as analogues of N-heterocyclic carbenes in olefin metathesis: a computational study. Dalton Transactions, 2015, 44, 20021-20026.	1.6	15

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55	SuperBiHelix method for predicting the pleiotropic ensemble of G-proteinâ€“coupled receptor conformations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E72-8.	3.3	38
56	Predicted Ligands for the Human Urotensinâ€II Gâ€...Proteinâ€Coupled Receptor with Some Experimental Validation. ChemMedChem, 2014, 9, 1732-1743.	1.6	6
57	Advances in GPCR Modeling Evaluated by the GPCR Dock 2013 Assessment: Meeting New Challenges. Structure, 2014, 22, 1120-1139.	1.6	149
58	Ligand- and mutation-induced conformational selection in the CCR5 chemokine G protein-coupled receptor. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13040-13045.	3.3	40
59	Exploring structures and properties of new geodesic polyarenes. Chemical Physics Letters, 2014, 595-596, 6-12.	1.2	3
60	Conformational Ensemble View of G Protein-Coupled Receptors and the Effect of Mutations and Ligand Binding. Methods in Enzymology, 2013, 520, 31-48.	0.4	15
61	Impact of Local Curvature and Structural Defects on Grapheneâ€“C₆₀ Fullerene Fusion Reaction Barriers. Journal of Physical Chemistry C, 2013, 117, 19664-19671.	1.5	20
62	Selective NaNO2 recognition by a simple heteroditopic salt receptor based on l-ornithine molecular scaffold. Dalton Transactions, 2013, 42, 15271.	1.6	17
63	3-Bromopyridine As a Sixth Ligand in Sulfoxide-Based Hoveyda Complexes: A Study on Catalytic Properties. Organometallics, 2013, 32, 2192-2198.	1.1	26
64	Structural and Mechanistic Basis of the Fast Metathesis Initiation by a Six-Coordinated Ruthenium Catalyst. Organometallics, 2013, 32, 3625-3630.	1.1	39
65	Lipid Receptor S1P1 Activation Scheme Concluded from Microsecond All-Atom Molecular Dynamics Simulations. PLoS Computational Biology, 2013, 9, e1003261.	1.5	31
66	Use of G-Protein-Coupled and -Uncoupled CCR5 Receptors by CCR5 Inhibitor-Resistant and -Sensitive Human Immunodeficiency Virus Type 1 Variants. Journal of Virology, 2013, 87, 6569-6581.	1.5	38
67	Action of Molecular Switches in GPCRs - Theoretical and Experimental Studies. Current Medicinal Chemistry, 2012, 19, 1090-1109.	1.2	395
68	Genetically Encoded Photo-cross-linkers Map the Binding Site of an Allosteric Drug on a G Protein-Coupled Receptor. ACS Chemical Biology, 2012, 7, 967-972.	1.6	67
69	3D Structure Prediction of TAS2R38 Bitter Receptors Bound to Agonists Phenylthiocarbamide (PTC) and 6-n-Propylthiouracil (PROP). Journal of Chemical Information and Modeling, 2012, 52, 1875-1885.	2.5	69
70	The Role of Water in Activation Mechanism of Human N-Formyl Peptide Receptor 1 (FPR1) Based on Molecular Dynamics Simulations. PLoS ONE, 2012, 7, e47114.	1.1	22
71	G protein-coupled receptors--recent advances. Acta Biochimica Polonica, 2012, 59, 515-29.	0.3	36
72	The Predicted 3D Structure of Bitter Taste Receptors, TAS2R38 Based on a BiHelix and SuperBiHelix Methodologies. Procedia Environmental Sciences, 2011, 8, 543-548.	1.3	5

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73	Status of GPCR Modeling and Docking as Reflected by Community-wide GPCR Dock 2010 Assessment. Structure, 2011, 19, 1108-1126.	1.6	269
74	Heterogeneous and homogeneous nucleation of Taxolâ„¢ crystals in aqueous solutions and gels: Effect of tubulin proteins. Colloids and Surfaces B: Biointerfaces, 2010, 76, 199-206.	2.5	11
75	Predicted 3D structures for adenosine receptors bound to ligands: Comparison to the crystal structure. Journal of Structural Biology, 2010, 170, 10-20.	1.3	58
76	Chloromethane and dichloromethane decompositions inside nanotubes as models of reactions in confined space. Theoretical Chemistry Accounts, 2009, 124, 95-103.	0.5	15
77	Community-wide assessment of GPCR structure modelling and ligand docking: GPCR Dock 2008. Nature Reviews Drug Discovery, 2009, 8, 455-463.	21.5	260
78	Binding affinity of fluorochromes and fluorescent proteins to Taxolâ„¢ crystals. Materials Science and Engineering C, 2009, 29, 1609-1615.	3.8	12
79	Erratum to â€œStructures, stabilities and tautomerizations of uracil and diphosphouracil tautomersâ€• [Chem. Phys. 332 (2007) 152â€“161]. Chemical Physics, 2008, 348, 254.	0.9	0
80	Altering the Orientation of Proteins on Self-Assembled Monolayers: A Computational Study. Biomacromolecules, 2008, 9, 3239-3245.	2.6	12
81	1-(<I>para</I>-substituted phenyl diazenyl) Pyrrolidinofullerenes. A Theoretical Study. Journal of Computational and Theoretical Nanoscience, 2008, 5, 2210-2215.	0.4	2
82	Structure and Properties of a Series of Arylselenium [60]Fulleropyrrolidine Derivatives. Journal of Computational and Theoretical Nanoscience, 2008, 5, 554-562.	0.4	0
83	THEORETICAL, EMPIRICAL AND EXPERIMENTAL ELECTRON AFFINITIES OF SF₆: SOLVING THE DENSITY FUNCTIONAL ENIGMA. Journal of Theoretical and Computational Chemistry, 2007, 06, 747-759.	1.8	5
84	Synthesis of new spiroâ€[isothiochromeneâ€3,5â€²â€isoxazolidin]â€4(1H)â€ones. Journal of Heterocyclic Chemistry, 2007, 44, 711-716.	1.4	9
85	Computational note on thermochemical stability of the HO2â€“CHClO complex. Computational and Theoretical Chemistry, 2007, 816, 1-3.	1.5	5
86	Theoretical modeling of the nonenzymatic solvolysis of CMP-NeuAc in an acidic environment. Computational and Theoretical Chemistry, 2007, 820, 90-97.	1.5	1
87	Fullerene as an electron buffer: Charge transfer in Li@C60. Chemical Physics Letters, 2007, 442, 339-343.	1.2	73
88	Functionalization of carbon nanocones by free radicals: A theoretical study. Chemical Physics Letters, 2007, 444, 314-318.	1.2	19
89	Computational study of molecular properties of aggregates of C60 and (16,0) zigzag nanotube. Chemical Physics Letters, 2007, 446, 87-91.	1.2	12
90	Formation of glyoxal in hydroxyacetaldehyde and glycine nonenzymatic browning Maillard reaction: A computational study. Food Chemistry, 2007, 103, 359-368.	4.2	8

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91	Cyclododecane and cyclotridecane complexes with cobalt as potent histidine chelators: A theoretical study. Polyhedron, 2007, 26, 2477-2481.	1.0	2
92	Study of the structural and electronic properties of 1-(4, 5 and 6-selenenyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (derivatives-3-f 1039-1047.	0.8	21
93	Theoretical study of molecular and electronic structure of 2-Se-(2-methyl-2-propenyl)-1-benzoic acid. International Journal of Quantum Chemistry, 2007, 107, 152-158.	1.0	6
94	Electron affinities, gas phase acidities, and potential energy curves: Benzene. International Journal of Quantum Chemistry, 2007, 107, 1115-1125.	1.0	5
95	A theoretical study of zinc(II) interactions with amino acid models and peptide fragments. Journal of Biological Inorganic Chemistry, 2007, 13, 133-137.	1.1	65
96	Structures, stabilities and tautomerizations of uracil and diphosphouracil tautomers. Chemical Physics, 2007, 332, 152-161.	0.9	26
97	Metallization of nanobiostructures: a theoretical study of copper nanowires growth in microtubules. Journal of Materials Chemistry, 2006, 16, 4649.	6.7	5
98	Experimental and theoretical investigation of the IR spectra and thermochemistry of four isomers of 2-N,N-dimethylaminecyclohexyl 1-N',N'-dimethylcarbamate. Ecletica Quimica, 2006, 31, 53-62.	0.2	1
99	Synthesis and Physical Characterization of 2-((E)-1-(3-((E)-1-(2-hydroxyphenyl)ethylideneamino)-2-methylphenylimino)ethyl)phenol. MolBank, 2006, 2006, M455.	0.2	4
100	Synthesis, Physical Characterization, Antibacterial and Antifungal activities of a novel bis(3-((E)-1-(2-hydroxyphenyl)ethylideneamino)phenyl)methanone. MolBank, 2006, 2006, M484.	0.2	1
101	Synthesis, Physical Characterization, Antibacterial and Antifungal Activities of 2-((E)-1-(2-((E)-1-(2-Hydroxyphenyl)ethylideneamino) phenylamino) ethyl) phenol. MolBank, 2006, 2006, M489.	0.2	0
102	New 1-(4-nitrophenyl)-5,5â€™-diisopropyl-3,3â€™-bipyrazole. MolBank, 2006, 2006, M490.	0.2	1
103	New 1-(ethyl-ethanoate-yl)-5,5â€™-diisopropyl-3,3â€™-bipyrazole. MolBank, 2006, 2006, M491.	0.2	0
104	The Effect of Gas Adsorption on Carbon Nanotubes Properties. Journal of Computational and Theoretical Nanoscience, 2006, 3, 664-669.	0.4	35
105	Molecular dynamics studies of protein-fragment models encapsulated into carbon nanotubes. Chemical Physics Letters, 2006, 430, 97-100.	1.2	38
106	Theoretical investigation of the electronic structure of 1-(3,4; 3,5 and 3,6-bis-selenocyanato-phenyl) pyrrolidinofullerenes. Journal of Organometallic Chemistry, 2006, 691, 4589-4594.	0.8	18
107	Iminodiacetate as a Chelating Agent for Histidine: A Theoretical Study. Journal of Computational and Theoretical Nanoscience, 2006, 3, 775-784.	0.4	3
108	Modeling Tubulin at Interfaces. Immobilization of Microtubules on Self-Assembled Monolayers. Journal of Physical Chemistry B, 2005, 109, 17734-17742.	1.2	5

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109	Multilevel Quantum Chemistry Approach to the Development of a Database of the SAM-Ligand-Metal Ion-Protein Interactions. Journal of Computational and Theoretical Nanoscience, 2005, 2, 456-468.	0.4	3
110	Modelling of Octahedral Manganese II Complexes with Inorganic Ligands: A Problem with Spin-States. International Journal of Molecular Sciences, 2003, 4, 503-511.	1.8	18
111	Ruthenium Olefin Metathesis Catalysts Bearing Macrocyclic Nâ€Heterocyclic Carbene Ligand: Improved Stability and Activity. Angewandte Chemie, 0, , .	1.6	0