

Konstantinos D Vogiatzis

List of Publications by Year in descending order

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60
papers

3,099
citations

201385

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155451

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all docs

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65
times ranked

4491
citing authors

#	ARTICLE	IF	CITATIONS
1	Vinyl-Addition Fluoroalkoxysilyl-Substituted Polynorbornene Membranes for CO ₂ /CH ₄ Separation. ACS Applied Polymer Materials, 2022, 4, 7976-7988.	2.0	8
2	Electrocatalytic Hydrogen Evolution Using A Molecular Antimony Complex under Aqueous Conditions: An Experimental and Computational Study on Main-Group Element Catalysis. Chemistry - A European Journal, 2022, 28, .	1.7	7
3	A PEGylated Tin Porphyrin Complex for Electrocatalytic Proton Reduction: Mechanistic Insights into Main-Group Element Catalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
4	Mechanistic Investigations of Gas-Phase Catalytic Hydrogenation in Metal-Organic Frameworks: Cooperative Activity of the Metal and Linker Sites in Cu ₂ Rh ₃ (BTC) ₂ . Journal of Physical Chemistry C, 2022, 126, 11553-11565.	1.5	3
5	A Carbodiimide-Mediated P-C Bond-Forming Reaction: Mild Amidoalkylation of P-Nucleophiles by Boc-Aminals. Organic Letters, 2021, 23, 1726-1730.	2.4	7
6	Electrocatalytic Dechlorination of Dichloromethane in Water Using a Heterogenized Molecular Copper Complex. Inorganic Chemistry, 2021, 60, 4915-4923.	1.9	20
7	Redox states of dinitrogen coordinated to a molybdenum atom. Journal of Chemical Physics, 2021, 154, 224308.	1.2	2
8	Nature of the Short Rh-Li Contact between Lithium and the Rhodium π -Alkenyl Complex [Rh(CH ₂ CMe ₂ CH ₂ CH ₂ CH ₂) ₂] ⁺ . Inorganic Chemistry, 2021, 60, 8790-8801.	1.9	2
9	Computational catalysis for metal-organic frameworks: An overview. Coordination Chemistry Reviews, 2021, 436, 213777.	9.5	34
10	Potent Anti-Inflammatory, Arylpyrazole-Based Glucocorticoid Receptor Agonists That Do Not Impair Insulin Secretion. ACS Medicinal Chemistry Letters, 2021, 12, 1568-1577.	1.3	3
11	π -Donation and π -Backdonation Effects in Dative Bonds of Main-Group Elements. Journal of Physical Chemistry A, 2021, 125, 7956-7966.	1.1	5
12	Addition-type alkoxysilyl-substituted polynorbornenes for post-combustion carbon dioxide separations. Journal of Membrane Science, 2020, 595, 117532.	4.1	27
13	Selecting Quantum-Chemical Methods for Lanthanide-Containing Molecules: A Balance between Accuracy and Efficiency. Inorganic Chemistry, 2020, 59, 10492-10500.	1.9	13
14	Direct Identification of Mixed-Metal Centers in Metal-Organic Frameworks: Cu ₃ (BTC) ₂ Transmetalated with Rh ²⁺ Ions. Journal of Physical Chemistry Letters, 2020, 11, 8138-8144.	2.1	16
15	Transferable MP2-Based Machine Learning for Accurate Coupled-Cluster Energies. Journal of Chemical Theory and Computation, 2020, 16, 7453-7461.	2.3	14
16	Evaluating the impact of functional groups on membrane-mediated CO ₂ /N ₂ gas separations using a common polymer backbone. Journal of Polymer Science, 2020, 58, 2644-2653.	2.0	10
17	NWChem: Past, present, and future. Journal of Chemical Physics, 2020, 152, 184102.	1.2	425
18	Adhesive Polymers as Efficient Binders for High-Capacity Silicon Electrodes. ACS Applied Energy Materials, 2020, 3, 3387-3396.	2.5	34

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19	Representation of molecular structures with persistent homology for machine learning applications in chemistry. <i>Nature Communications</i> , 2020, 11, 3230.	5.8	61
20	Ion specific fluorescence modulation of polyvinyl alcohol-boronate matrices. <i>Polymer Chemistry</i> , 2020, 11, 1919-1925.	1.9	4
21	Elastic Single-Ion Conducting Polymer Electrolytes: Toward a Versatile Approach for Intrinsically Stretchable Functional Polymers. <i>Macromolecules</i> , 2020, 53, 3591-3601.	2.2	41
22	Data-Driven Acceleration of the Coupled-Cluster Singles and Doubles Iterative Solver. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4129-4135.	2.1	39
23	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 16685-16689.	1.6	7
24	CO ₂ Capture on Functionalized Calixarenes: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10116-10122.	1.1	10
25	Advances, Updates, and Analytics for the Computation-Ready, Experimental Metal-Organic Framework Database: CoRE MOF 2019. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5985-5998.	1.0	372
26	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16533-16537.	7.2	29
27	Thermodynamic and kinetic studies of H ₂ and N ₂ binding to bimetallic nickel-group 13 complexes and neutron structure of a Ni(^η -H ₂) adduct. <i>Chemical Science</i> , 2019, 10, 7029-7042.	3.7	38
28	Unprecedented Five-Coordinate Iron(IV) Imides Generate Divergent Spin States Based on the Imide R ₂ Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8115-8118.	7.2	44
29	Understanding the Nature of Weak Interactions between Functionalized Boranes and N ₂ /O ₂ , Promising Functional Groups for Gas Separations. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3315-3325.	1.1	6
30	Elimination of CO ₂ /N ₂ Langmuir Sorption and Promotion of α -N ₂ -Phobicity within High-T _g Glassy Membranes. <i>Macromolecules</i> , 2019, 52, 1589-1600.	2.2	43
31	Unprecedented Five-Coordinate Iron(IV) Imides Generate Divergent Spin States Based on the Imide R ₂ Groups. <i>Angewandte Chemie</i> , 2019, 131, 8199-8202.	1.6	13
32	Computational Approach to Molecular Catalysis by 3d Transition Metals: Challenges and Opportunities. <i>Chemical Reviews</i> , 2019, 119, 2453-2523.	23.0	260
33	Post-Hartree-Fock methods: configuration interaction, many-body perturbation theory, coupled-cluster theory., 2019, , 63-117.		17
34	Superstretchable, Self-Healing Polymeric Elastomers with Tunable Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1800741.	7.8	162
35	Gas-Phase Ion Chemistry of Metalloporphyrin Anions with Molecular Oxygen: Probing the Influence of the Oxidation and Spin State of the Central Transition Metal by Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4357-4365.	1.1	8
36	Ligand field effects on the ground and excited states of reactive FeO ²⁺ species. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28786-28795.	1.3	29

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37	Quantum Chemical Characterization of Single Molecule Magnets Based on Uranium. Journal of Physical Chemistry A, 2017, 121, 1726-1733.	1.1	25
38	Gas separation mechanism of CO ₂ selective amidoxime-poly(1-trimethylsilyl-1-propyne) membranes. Polymer Chemistry, 2017, 8, 3341-3350.	1.9	25
39	Catechol-Ligated Transition Metals: A Quantum Chemical Study on a Promising System for Gas Separation. Journal of Physical Chemistry C, 2017, 121, 10463-10469.	1.5	20
40	Correction to "Catechol-Ligated Transition Metals: A Quantum Chemical Study on a Promising System for Gas Separation". Journal of Physical Chemistry C, 2017, 121, 20553-20553.	1.5	1
41	Electronic Structure of the [Cu ₃ (μ_4 -O) ₃] ²⁺ Cluster in Mordenite Zeolite and Its Effects on the Methane to Methanol Oxidation. Journal of Physical Chemistry C, 2017, 121, 22295-22302.	1.5	74
42	Pushing configuration-interaction to the limit: Towards massively parallel MCSCF calculations. Journal of Chemical Physics, 2017, 147, 184111.	1.2	120
43	Selective, Tunable O ₂ Binding in Cobalt(II)-Triazolate/Pyrazolate Metal-Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 7161-7170.	6.6	101
44	Accelerated Computational Analysis of Metal-Organic Frameworks for Oxidation Catalysis. Journal of Physical Chemistry C, 2016, 120, 18707-18712.	1.5	44
45	Ab Initio Study of the Adsorption of Small Molecules on Metal-Organic Frameworks with Oxo-centered Trimetallic Building Units: The Role of the Undercoordinated Metal Ion. Inorganic Chemistry, 2015, 54, 8251-8263.	1.9	48
46	Systematic Expansion of Active Spaces beyond the CASSCF Limit: A GASSCF/SplitGAS Benchmark Study. Journal of Chemical Theory and Computation, 2015, 11, 3010-3021.	2.3	48
47	Ab Initio Derived Force Fields for Predicting CO ₂ Adsorption and Accessibility of Metal Sites in the Metal-Organic Frameworks M-MOF-74 (M = Mn, Co, Ni, Cu). Journal of Physical Chemistry C, 2015, 119, 16058-16071.	1.5	84
48	Bi- and trimetallic rare-earth-palladium complexes ligated by phosphinoamides. Chemical Communications, 2015, 51, 11761-11764.	2.2	26
49	Mechanism of Oxidation of Ethane to Ethanol at Iron(IV)-Oxo Sites in Magnesium-Diluted Fe ₂ (dobdc). Journal of the American Chemical Society, 2015, 137, 5770-5781.	6.6	156
50	Non-covalent Interactions of CO ₂ with Functional Groups of Metal-Organic Frameworks from a CCSD(T) Scheme Applicable to Large Systems. Journal of Chemical Theory and Computation, 2015, 11, 1574-1584.	2.3	32
51	Catalytic Silylation of Dinitrogen with a Dicobalt Complex. Journal of the American Chemical Society, 2015, 137, 4638-4641.	6.6	162
52	Pushing Single-Oxygen-Atom-Bridged Bimetallic Systems to the Right: A Cryptand-Encapsulated Co ₂ Co Unit. Journal of the American Chemical Society, 2015, 137, 15354-15357.	6.6	9
53	Accurate atomization energies from combining coupled-cluster computations with interference-corrected explicitly correlated second-order perturbation theory. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	29
54	Accurate computations of the structures and binding energies of the imidazole benzene and pyrrole benzene complexes. Chemical Physics, 2014, 441, 17-22.	0.9	22

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55	Accurate non-covalent interactions with basis-set corrections from interference-corrected perturbation theory: comparison with the S22B database. <i>Molecular Physics</i> , 2013, 111, 2299-2305.	0.8	15
56	Interference-corrected explicitly-correlated second-order perturbation theory. <i>Chemical Physics Letters</i> , 2011, 503, 157-161.	1.2	25
57	Magnetic Properties of Paddlewheels and Trinuclear Clusters with Exposed Metal Sites. <i>ChemPhysChem</i> , 2011, 12, 3307-3319.	1.0	27
58	Ab initio Study of the Interactions between CO ₂ and N-Containing Organic Heterocycles. <i>ChemPhysChem</i> , 2009, 10, 374-383.	1.0	180
59	On the Interaction between Carbon Dioxide and Nanomaterials with High Accuracy ab initio and DFT Calculations. , 2009, , .		0
60	A PEGylated Tin-Porphyrin Complex for Electrocatalytic Proton Reduction: Mechanistic Insights into Main-Group Element Catalysis. <i>Angewandte Chemie</i> , 0, , .	1.6	0