

Laurence Leherte

List of Publications by Year in descending order

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75
papers

694
citations

687363

13
h-index

794594

19
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81
all docs

81
docs citations

81
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the self-diffusion coefficient of water in ferrierite by molecular dynamics. <i>Chemical Physics Letters</i> , 1988, 145, 237-241.	2.6	40
2	Energetics and diffusion of butene isomers in channel zeolites from molecular dynamics simulations. <i>Journal of Molecular Catalysis A</i> , 1997, 119, 165-176.	4.8	29
3	Self-diffusion of water into a ferrierite-type zeolite by molecular dynamics simulations. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 1959-1970.	1.7	27
4	Molecular Mechanical Investigation of the Energetics of Butene Sorbed in H-Ferrierite. <i>Molecular Simulation</i> , 1996, 17, 175-196.	2.0	25
5	Analysis of MD Trajectories as a Jump Diffusion Process: Butene Isomers in Zeolite Types TON and MEL. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4717-4732.	2.6	24
6	Effects of long-range interactions in zeolite-like systems: interaction energies and self-diffusion coefficient of water in ferrierite from molecular dynamics simulation. <i>Journal of Molecular Catalysis</i> , 1989, 54, 426-438.	1.2	22
7	Molecular Mechanism for the Self-Supported Synthesis of Graphitic Carbon Nitride from Urea Pyrolysis. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1396-1406.	4.6	20
8	A New Graph Descriptor for Molecules Containing Cycles. Application as Screening Criterion for Searching Molecular Structures within Large Databases of Organic Compounds. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1437-1445.	2.8	19
9	Dynamics of benzene in zeolite KL. <i>Journal of Molecular Catalysis A</i> , 2001, 166, 147-165.	4.8	18
10	Confinement in molecular sieves: The pioneering physical concepts. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 16-23.	4.8	15
11	What does zeolitic water look like?: Modelization by molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 1291-1326.	2.0	14
12	Shape information from a critical point analysis of calculated electron density maps: Application to DNA-drug systems. <i>Journal of Computer-Aided Molecular Design</i> , 1994, 8, 257-272.	2.9	14
13	Comparison of Benzodiazepine-Like Compounds Using Topological Analysis and Genetic Algorithms. <i>SAR and QSAR in Environmental Research</i> , 1998, 8, 195-232.	2.2	14
14	Critical Point Representations of Electron Density Maps for the Comparison of Benzodiazepine-Type Ligands. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 816-832.	2.8	14
15	On the Modularity of the Intrinsic Flexibility of the μ Opioid Receptor: A Computational Study. <i>PLoS ONE</i> , 2014, 9, e115856.	2.5	14
16	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 2001, 29, 47-83.	1.5	13
17	Analysis of Three-Dimensional Protein Images. <i>Journal of Artificial Intelligence Research</i> , 0, 7, 125-159.	7.0	13
18	Molecular scene analysis: the integration of direct-methods and artificial-intelligence strategies for solving protein crystal structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1993, 49, 168-178.	2.5	12

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19	Parameterization of the ReaxFF reactive force field for a proline-catalyzed aldol reaction. <i>Journal of Computational Chemistry</i> , 2016, 37, 2564-2572.	3.3	12
20	Influence of the presence of the heme cofactor on the JK-loop structure in indoleamine 2,3-dioxygenase 1. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 1211-1221.	2.3	12
21	Molecular scene analysis: application of a topological approach to the automated interpretation of protein electron-density maps. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1994, 50, 155-166.	2.5	11
22	Evaluation of the protein solvent-accessible surface using reduced representations in terms of critical points of the electron density. <i>Journal of Computational Chemistry</i> , 2004, 25, 1117-1126.	3.3	11
23	Coarse Point Charge Models For Proteins From Smoothed Molecular Electrostatic Potentials. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3279-3298.	5.3	11
24	Crystal structures and snapshots along the reaction pathway of human phosphoserine phosphatase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 592-604.	2.3	11
25	Study of the water behavior into a ferrierite zeolite by molecular dynamics simulations. <i>Computers & Chemistry</i> , 1991, 15, 273-285.	1.2	10
26	Molecular dynamics studies of sorbates in zeolites: water in ferrierite. <i>Catalysis Today</i> , 1991, 10, 177-200.	4.4	10
27	Structural Identification of Local Maxima in Low-Resolution Promolecular Electron Density Distributions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9875-9886.	2.5	10
28	Hierarchical analysis of promolecular full electron-density distributions: description of protein structure fragments. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1254-1265.	2.5	10
29	Influence of conformation on the representation of small flexible molecules at low resolution: alignment of endothiapsin ligands. <i>Journal of Computer-Aided Molecular Design</i> , 2005, 19, 525-549.	2.9	10
30	Structural, energetic, and dynamical properties of rotaxanes constituted of β -cyclodextrins and an azobenzene chain. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 26, 104-116.	2.4	10
31	[8] Critical-point analysis in protein electron-density map interpretation. <i>Methods in Enzymology</i> , 1997, 277, 131-157.	1.0	9
32	Critical Point Analysis of Calculated Electron Density Maps at Medium Resolution: Application to Shape Analysis of Zeolite-Like Systems. <i>Journal of Molecular Modeling</i> , 1997, 3, 156-171.	1.8	9
33	Interaction between probe molecules and zeolites.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2416-2423.	2.8	9
34	Description of protein-DNA complexes in terms of electron-density topological features. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 2150-2162.	2.5	9
35	Similarity measures based on Gaussian-type promolecular electron density models: Alignment of small rigid molecules. <i>Journal of Computational Chemistry</i> , 2006, 27, 1800-1816.	3.3	9
36	Ab initio quantum chemical and ReaxFF-based study of the intramolecular iminium-enamine conversion in a proline-catalyzed reaction. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	9

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37	Quantum mechanical investigations on the role of neutral and negatively charged enamine intermediates in organocatalyzed reactions. <i>Chemical Physics</i> , 2014, 434, 30-36.	1.9	9
38	On the origin of an external surface barrier to sorption in microporous solids: Reply to F. Vignière-Maeder. <i>Journal of Catalysis</i> , 1989, 119, 266-268.	6.2	8
39	Use of Electron Density Critical Points as Chemical Function-Based Reduced Representations of Pharmacological Ligands. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 1394-1401.	2.8	8
40	Topological Analysis of Proteins as Derived from Medium and High-resolution Electron Density: Applications to Electrostatic Properties. , 0, , 285-315.		8
41	Charge density distributions derived from smoothed electrostatic potential functions: design of protein reduced point charge models. <i>Journal of Computer-Aided Molecular Design</i> , 2011, 25, 913-930.	2.9	8
42	Topological analysis of electron density maps of chiral cyclodextrin-guest complexes: a steric interaction evaluation. <i>Supramolecular Science</i> , 1995, 2, 209-217.	0.7	7
43	Similarity and complementarity of molecular shapes: Applicability of a topological analysis approach. <i>Journal of Computer-Aided Molecular Design</i> , 1996, 10, 55-66.	2.9	6
44	Smoothed Gaussian molecular fields: an evaluation of molecular alignment problems. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	6
45	Multiscale design of coarse-grained elastic network-based potentials for the μ opioid receptor. <i>Journal of Molecular Modeling</i> , 2016, 22, 227.	1.8	6
46	Reduced Point Charge Models of Proteins: Effect of Protein-Water Interactions in Molecular Dynamics Simulations of Ubiquitin Systems. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9771-9784.	2.6	6
47	Interaction of POPC, DPPC, and POPE with the μ opioid receptor: A coarse-grained molecular dynamics study. <i>PLoS ONE</i> , 2019, 14, e0213646.	2.5	6
48	Effects of Long-Range Interactions in Zeolites-Like Systems: Dynamical Behavior of Water in Ferrierite From Molecular Dynamics Simulation. <i>Studies in Surface Science and Catalysis</i> , 1989, , 773-783.	1.5	5
49	Can Descriptors of the Electron Density Distribution Help To Distinguish Functional Groups?. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 1974-1983.	5.4	5
50	Evaluation of reduced point charge models of proteins through Molecular Dynamics simulations: Application to the Vps27 UIM-Ubiquitin complex. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 47, 44-61.	2.4	5
51	Investigating cyclic peptides inhibiting CD2-CD58 interactions through molecular dynamics and molecular docking methods. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 1295-1313.	2.9	5
52	Development of a Genetic Algorithm Method Especially Designed for the Comparison of Molecular Models: Application to the Elucidation of the Benzodiazepine Receptor Pharmacophore. , 0, , 497-509.		5
53	A Theoretical View and Approach to the Physics and Chemistry of Zeolites and Molecular Sieves. , 1990, , 1-51.		5
54	Monte Carlo Simulations of Water Interaction with a Ferrierite Type Zeolite Structure. <i>Studies in Surface Science and Catalysis</i> , 1988, , 293-300.	1.5	4

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55	Application of a Kohonen neural network to the analysis of data regarding the alkylation of toluene with methanol catalyzed by ZSM-5 type zeolites. <i>Computers & Chemistry</i> , 2002, 26, 557-572.	1.2	4
56	Comparison of reduced point charge models of proteins: Molecular Dynamics simulations of Ubiquitin. <i>Science China Chemistry</i> , 2014, 57, 1340-1354.	8.2	4
57	Formation and structural, energetic and dynamic properties of cyclodextrin host tubes and included guest molecules. <i>Supramolecular Chemistry</i> , 2015, 27, 90-109.	1.2	4
58	Accessing the free energy profile of a ring closure in a proline-catalyzed reaction using a reactive force field. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	4
59	Collective motions in protein structures: Applications of elastic network models built from electron density distributions. <i>Computer Physics Communications</i> , 2008, 179, 171-180.	7.5	3
60	Collective motions of rigid fragments in protein structures from smoothed electron density distributions. <i>Journal of Computational Chemistry</i> , 2008, 29, 1472-1489.	3.3	3
61	Implementation of a Protein Reduced Point Charge Model toward Molecular Dynamics Applications. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12531-12543.	2.5	3
62	Reduced point charge models of proteins: assessment based on molecular dynamics simulations. <i>Molecular Simulation</i> , 2016, 42, 289-304.	2.0	3
63	Multiresolution non-covalent interaction analysis for ligand-protein promolecular electron density distributions. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	3
64	Temporary Intermediates of L-Trp Along the Reaction Pathway of Human Indoleamine 2,3-Dioxygenase 1 and Identification of an Exo Site. <i>International Journal of Tryptophan Research</i> , 2021, 14, 117864692110529.	2.3	3
65	Computerised structural analysis of zeolitic networks: Conceptualisation of a zeolite scene through graphs comparison. <i>Journal of Computer-Aided Materials Design</i> , 1994, 1, 265-284.	0.7	2
66	Storing, retrieving, and analyzing experimental catalytic data with the help of artificial intelligence methods. <i>Studies in Surface Science and Catalysis</i> , 1995, 94, 525-535.	1.5	2
67	Modeling of Structural, Energetic, and Dynamic Properties of Few-Atom Silver Clusters Embedded in Polynucleotide Strands by Using Molecular Dynamics. <i>ChemPhysChem</i> , 2015, 16, 360-369.	2.1	2
68	Structure and Dynamics of an Archeal Monoglyceride Lipase from <i>Palaeococcus ferrophilus</i> as Revealed by Crystallography and In Silico Analysis. <i>Biomolecules</i> , 2021, 11, 533.	4.0	2
69	Linear dependence of the interaction energy on intramolecular distance for adsorbed or clustered diatomic molecules. <i>Molecular Physics</i> , 2000, 98, 1433-1439.	1.7	1
70	Investigation of bound and unbound phosphoserine phosphatase conformations through elastic network models and molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 3958-3974.	3.5	1
71	Structure-based identification of inhibitors disrupting the CD2-CD58 interactions. <i>Journal of Computer-Aided Molecular Design</i> , 2021, 35, 337-353.	2.9	1
72	Protein-Protein Docking Using Three-Dimensional Reduced Representations and Based on a Genetic Algorithm. , 2008, , 301-323.		1

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73	Molecular graphics applied to the investigations of sorbates in zeolites. , 1993, , 997-1002.		1
74	Use of Electron Density Critical Points as Chemical Function-Based Reduced Representations of Pharmacological Ligands.. ChemInform, 2004, 35, no.	0.0	0
75	Smoothed Gaussian molecular fields: an evaluation of molecular alignment problems. Highlights in Theoretical Chemistry, 2014, , 189-204.	0.0	0