

# Thomas

## List of Publications by Year in descending order

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42  
papers

1,451  
citations

331670

21  
h-index

315739

38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1213  
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR-spectroscopy of molecular clusters in pulsed supersonic slit-jet expansions. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5573-5582.	2.8	168
2	Folding Structures of Isolated Peptides as Revealed by Gas-Phase Mid-Infrared Spectroscopy. <i>ChemPhysChem</i> , 2005, 6, 120-128.	2.1	100
3	Ragout-jet FTIR spectroscopy of cluster isomerism and cluster dynamics: from carboxylic acid dimers to N2O nanoparticles. <i>Faraday Discussions</i> , 2001, 118, 331-359.	3.2	99
4	Gas-phase FT-IR-spectra of natural amino acids. <i>Chemical Physics Letters</i> , 2005, 409, 260-264.	2.6	85
5	Hydrogen Bonding in 2-Propanol. The Effect of Fluorination. <i>Journal of Physical Chemistry A</i> , 2000, 104, 265-274.	2.5	84
6	Quantum State-Resolved Energy Transfer Dynamics at Gas-Liquid Interfaces: IR Laser Studies of CO <sub>2</sub> Scattering from Perfluorinated Liquids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16396-16405.	2.6	70
7	Hydrogen bonded rings, chains and lassos: the case of t-butyl alcohol clusters. <i>Molecular Physics</i> , 2001, 99, 413-425.	1.7	62
8	Tautomers and electronic states of jet-cooled 2-aminopurine investigated by double resonance spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3021.	2.8	59
9	Wall heat fluxes and CO formation/oxidation during laminar and turbulent side-wall quenching of methane and DME flames. <i>International Journal of Heat and Fluid Flow</i> , 2018, 70, 181-192.	2.4	55
10	Chiral self-recognition in the gas phase: the case of glycidol dimers. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1945-1948.	2.8	45
11	Imino Tautomers of Gas-Phase Guanine from Mid-Infrared Laser Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6217-6221.	2.5	43
12	Numerical Study of Quenching Distances for Side-Wall Quenching Using Detailed Diffusion and Chemistry. <i>Flow, Turbulence and Combustion</i> , 2021, 106, 649-679.	2.6	38
13	Electronic and Vibrational Spectroscopy of 1-Methylthymine and its Water Clusters: The Dark State Survives Hydration. <i>ChemPhysChem</i> , 2008, 9, 1570-1577.	2.1	35
14	IR/UV spectra and quantum chemical calculations of Trp-Ser: Stacking interactions between backbone and indole side-chain. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2844.	2.8	35
15	Mid- and Near-Infrared Spectra of Conformers of H-Pro-Trp-OH. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3038-3046.	2.5	34
16	The effect of total reflection in PLIF imaging of annular thin films. <i>International Journal of Multiphase Flow</i> , 2015, 76, 64-72.	3.4	34
17	Quantitative chirality synchronization in trifluoroethanol dimers. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4664-4667.	2.8	33
18	Effect of different wall materials and thermal-barrier coatings on the flame-wall interaction of laminar premixed methane and propane flames. <i>International Journal of Heat and Fluid Flow</i> , 2018, 69, 95-105.	2.4	33

#	ARTICLE	IF	CITATIONS
19	Ignition by Mechanical Sparks: Ignition of Hydrogen/Air Mixtures by Submillimeter-Sized Hot Particles. <i>Combustion Science and Technology</i> , 2014, 186, 1606-1617.	2.3	30
20	Competing hydrogen bond topologies in 2-fluoroethanol dimer. <i>Journal of Molecular Structure</i> , 2006, 786, 86-95.	3.6	27
21	High-resolution infrared studies in slit supersonic discharges: CH <sub>2</sub> stretch excitation of jet-cooled CH <sub>2</sub> Cl radical. <i>Journal of Chemical Physics</i> , 2006, 125, 054303.	3.0	22
22	Near Wall Dynamics of Premixed Flames. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1955-1964.	3.9	20
23	Carbon nanostructure and reactivity of soot particles from non-intrusive methods based on UV-VIS spectroscopy and time-resolved laser-induced incandescence. <i>Carbon</i> , 2021, 182, 634-654.	10.3	20
24	Isomer-selective Vibrational Spectroscopy of Benzene-acetylene Aggregates: Comparison with the Structure of the Benzene-acetylene Cocrystal. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 10094-10097.	13.8	19
25	Structural assignment of adenine aggregates in CDCl <sub>3</sub> . <i>Journal of Chemical Physics</i> , 2008, 128, 195103.	3.0	17
26	Experimental and numerical study on the ignition of fuel/air mixtures at laser heated silicon nitride particles. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1475-1484.	3.9	17
27	Ignition of combustible mixtures by hot particles at varying relative speeds. <i>Combustion Science and Technology</i> , 2019, 191, 178-195.	2.3	17
28	Exploring a hydrogen-bond terminus: spectroscopy of eucalyptol-alcohol clusters. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3555-3563.	2.8	16
29	High-Resolution Double Resonance Spectroscopy of Pyrazine Dimers: Competition between	2.6	16
30	Numerical Simulation of the Ignition of Fuel/Air Gas Mixtures Around Small Hot Particles. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 1625-1654.	2.8	15
31	Investigation of HCHO Catalytic Oxidation over Platinum using Planar Laser-Induced Fluorescence. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118473.	20.2	15
32	CH stretch/internal rotor dynamics in ethyl radical: High-resolution spectroscopy in the CH <sub>3</sub> -stretch manifold. <i>Journal of Chemical Physics</i> , 2006, 124, 054316.	3.0	14
33	The performance of the semi-empirical AM1 method on small and nanometre-sized N <sub>2</sub> O clusters. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4939-4949.	2.8	11
34	Fourier transform infrared spectroscopy of 1-cyclohexyluracil aggregates in CDCl <sub>3</sub> solutions. <i>Journal of Chemical Physics</i> , 2009, 130, 125102.	3.0	11
35	FTIR-Spectroscopy of isolated and argon coated (HBr) <sub>n</sub> clusters in supersonic slit-jet expansions. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1365-1369.	2.8	10
36	Experimental and numerical investigation of NO oxidation on Pt/Al <sub>2</sub> O <sub>3</sub> - and NO <sub>x</sub> storage on Pt/BaO/Al <sub>2</sub> O <sub>3</sub> -catalysts. <i>Catalysis Science and Technology</i> , 2022, 12, 4456-4470.	4.1	9

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37	Fourier transform infrared spectroscopy of 2- <sup>2</sup> -deoxycytidine aggregates in CDCl <sub>3</sub> solutions. Journal of Chemical Physics, 2011, 134, 115103.	3.0	7
38	Towards a Spectroscopic and Theoretical Identification of the Isolated Building Blocks of the Benzene-Acetylene Cocrystal. ChemPhysChem, 2013, 14, 837-846.	2.1	6
39	Turbulent impinging jets on rough surfaces. GAMM Mitteilungen, 2022, 45, .	5.5	6
40	Spatially and Temporally Resolved Measurements of NO Adsorption/Desorption over NO <sub>x</sub> Storage Catalyst. ChemPhysChem, 2020, 21, 2497-2501.	2.1	5
41	Two-Dimensional Tomographic Simultaneous Multispecies Visualization-Part II: Reconstruction Accuracy. Energies, 2020, 13, 2368.	3.1	4
42	Two-Dimensional Tomographic Simultaneous Multi-Species Visualization-Part I: Experimental Methodology and Application to Laminar and Turbulent Flames. Energies, 2020, 13, 2335.	3.1	3