Thomas

List of Publications by Year
in descending order

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	Turbulent impinging jets on rough surfaces. GAMM Mitteilungen, 2022, 45, .	5.5	6
2	Experimental and numerical investigation of NO oxidation on Pt/Al₂O₃- and NO_xstorage on Pt/BaO/Al₂O₃-catalysts. Catalysis Science and Technology, 2022, 12, 4456-4470.	4.1	9
3	Near Wall Dynamics of Premixed Flames. Proceedings of the Combustion Institute, 2021, 38, 1955-1964.	3.9	20
4	Numerical Study of Quenching Distances for Side-Wall Quenching Using Detailed Diffusion and Chemistry. Flow, Turbulence and Combustion, 2021, 106, 649-679.	2.6	38
5	Carbon nanostructure and reactivity of soot particles from non-intrusive methods based on UV-VIS spectroscopy and time-resolved laser-induced incandescence. Carbon, 2021, 182, 634-654.	10.3	20
6	Investigation of HCHO Catalytic Oxidation over Platinum using Planar Laser-Induced Fluorescence. Applied Catalysis B: Environmental, 2020, 264, 118473.	20.2	15
7	Spatially and Temporally Resolved Measurements of NO Adsorption/Desorption over NOxâ€Storage Catalyst. ChemPhysChem, 2020, 21, 2497-2501.	2.1	5
8	Two-Dimensional Tomographic Simultaneous Multi-Species Visualizationâ€"Part I: Experimental Methodology and Application to Laminar and Turbulent Flames. Energies, 2020, 13, 2335.	3.1	3
9	Two-Dimensional Tomographic Simultaneous Multispecies Visualizationâ€"Part II: Reconstruction Accuracy. Energies, 2020, 13, 2368.	3.1	4
10	Ignition of combustible mixtures by hot particles at varying relative speeds. Combustion Science and Technology, 2019, 191, 178-195.	2.3	17
11	Wall heat fluxes and CO formation/oxidation during laminar and turbulent side-wall quenching of methane and DME flames. International Journal of Heat and Fluid Flow, 2018, 70, 181-192.	2.4	55
12	Effect of different wall materials and thermal-barrier coatings on the flame-wall interaction of laminar premixed methane and propane flames. International Journal of Heat and Fluid Flow, 2018, 69, 95-105.	2.4	33
13	Numerical Simulation of the Ignition of Fuel/Air Gas Mixtures Around Small Hot Particles. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1625-1654.	2.8	15
14	Experimental and numerical study on the ignition of fuel/air mixtures at laser heated silicon nitride particles. Proceedings of the Combustion Institute, 2017, 36, 1475-1484.	3.9	17
15	The effect of total reflection in PLIF imaging of annular thin films. International Journal of Multiphase Flow, 2015, 76, 64-72.	3.4	34
16	Ignition by Mechanical Sparks: Ignition of Hydrogen/Air Mixtures by Submillimeter-Sized Hot Particles. Combustion Science and Technology, 2014, 186, 1606-1617.	2.3	30
17	Towards a Spectroscopic and Theoretical Identification of the Isolated Building Blocks of the Benzeneâ€"Acetylene Cocrystal. ChemPhysChem, 2013, 14, 837-846.	2.1	6
18	Fourier transform infrared spectroscopy of 2â€²-deoxycytidine aggregates in CDCl3 solutions. Journal of Chemical Physics, 2011, 134, 115103.	3.0	7

#	Article	IF	Citations
19	Fourier transform infrared spectroscopy of 1-cyclohexyluracil aggregates in CDCl3 solutions. Journal of Chemical Physics, 2009, 130, 125102.	3.0	11
20	IRâ€“UV double resonance spectra of pyrazine dimers: Competition between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.gif" display="inline" overflow="scroll"><mml:mrow><mml:mtext>CH</mml:mtext><mml:mo>â‹¯</mml:mo><mml:mi mathvariant="normal">Ï€</mml:mi></mml:mrow></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.gif" display="inline" overflow="scroll"><mml:mrow><mml:mi mathvariant="normal">Ï€</mml:mi><mml:mo>â‹¯</mml:mo><mm	2.6	16
21	Electronic and Vibrational Spectroscopy of 1a€Methylthymine and its Water Clusters: The Dark State Survives Hydration. ChemPhysChem, 2008, 9, 1570-1577.	2.1	35
22	Isomerâ€Selective Vibrational Spectroscopy of Benzeneâ€“Acetylene Aggregates: Comparison with the Structure of the Benzeneâ€“Acetylene Cocrystal. Angewandte Chemie - International Edition, 2008, 47, 10094-10097.	13.8	19
23	IR/UV spectra and quantum chemical calculations of Trpâ€“Ser: Stacking interactions between backbone and indole side-chain. Physical Chemistry Chemical Physics, 2008, 10, 2844.	2.8	35
24	Structural assignment of adenine aggregates in CDCl3. Journal of Chemical Physics, 2008, 128, 195103.	3.0	17
25	Imino Tautomers of Gas-Phase Guanine from Mid-Infrared Laser Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 6217-6221.	2.5	43
26	Mid- and Near-Infrared Spectra of Conformers of H-Pro-Trp-OH. Journal of Physical Chemistry A, 2007, 111, 3038-3046.	2.5	34
27	Quantitative chirality synchronization in trifluoroethanol dimers. Physical Chemistry Chemical Physics, 2006, 8, 4664-4667.	2.8	33
28	Competing hydrogen bond topologies in 2-fluoroethanol dimer. Journal of Molecular Structure, 2006, 786, 86-95.	3.6	27
29	High-resolution infrared studies in slit supersonic discharges: CH2 stretch excitation of jet-cooled CH2Cl radical. Journal of Chemical Physics, 2006, 125, 054303.	3.0	22
30	CH stretch/internal rotor dynamics in ethyl radical: High-resolution spectroscopy in the CH3-stretch manifold. Journal of Chemical Physics, 2006, 124, 054316.	3.0	14
31	Gas-phase FT-IR-spectra of natural amino acids. Chemical Physics Letters, 2005, 409, 260-264.	2.6	85
32	Folding Structures of Isolated Peptides as Revealed by Gas-Phase Mid-Infrared Spectroscopy. ChemPhysChem, 2005, 6, 120-128.	2.1	100
33	Tautomers and electronic states of jet-cooled 2-aminopurine investigated by double resonance spectroscopy and theory. Physical Chemistry Chemical Physics, 2005, 7, 3021.	2.8	59
34	Quantum State-Resolved Energy Transfer Dynamics at Gasâˆ'Liquid Interfaces:â€‰ IR Laser Studies of CO2 Scattering from Perfluorinated Liquids. Journal of Physical Chemistry B, 2005, 109, 16396-16405.	2.6	70
35	The performance of the semi-empirical AM1 method on small and nanometre-sized N2O clusters. Physical Chemistry Chemical Physics, 2004, 6, 4939-4949.	2.8	11
36	FTIR-Spectroscopy of isolated and argon coated (HBr)nâ‰4 clusters in supersonic slit-jet expansions. Physical Chemistry Chemical Physics, 2003, 5, 1365-1369.	2.8	10

#	ARTICLE	IF	CITATIONS
37	Ragout-jet FTIR spectroscopy of cluster isomerism and cluster dynamics: from carboxylic acid dimers to N2O nanoparticles. Faraday Discussions, 2001, 118, 331-359.	3.2	99
38	Chiral self-recognition in the gas phase: the case of glycidol dimers. Physical Chemistry Chemical Physics, 2001, 3, 1945-1948.	2.8	45
39	Hydrogen bonded rings, chains and lassos: the case of t-butyl alcohol clusters. Molecular Physics, 2001, 99, 413-425.	1.7	62
40	Exploring a hydrogen-bond terminus: spectroscopy of eucalyptolâ€“alcohol clusters. Physical Chemistry Chemical Physics, 2000, 2, 3555-3563.	2.8	16
41	Hydrogen Bonding in 2-Propanol. The Effect of Fluorinationâ€. Journal of Physical Chemistry A, 2000, 104, 265-274.	2.5	84
42	FTIR-spectroscopy of molecular clusters in pulsed supersonic slit-jet expansions. Physical Chemistry Chemical Physics, 1999, 1, 5573-5582.	2.8	168