Jeffrey W Hudgens

List of Publications by Year
in descending order

95 papers	2,804 citations	117453 34 h-index	197535 49 g-index
97 all docs	97 docs citations	97 times ranked	1816 citing authors

#	Article	IF	Citations
1	HDX-MS and MD Simulations Provide Evidence for Stabilization of the IgG1â€"FcÎ³RIa (CD64a) Immune Complex Through Intermolecular Glycoprotein Bonds. Journal of Molecular Biology, 2022, 434, 167391.	2.0	7
2	Interlaboratory Studies Using the NISTmAb to Advance Biopharmaceutical Structural Analytics. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	5
3	Dataset from HDX-MS Studies of IgG1 Glycoforms and Their Interactions with the FcÎ³RIa (CD64) Receptor. Journal of Research of the National Institute of Standards and Technology, 2021, 126, .	0.4	1
4	Conformational gating, dynamics and allostery in human monoacylglycerol lipase. Scientific Reports, 2020, 10, 18531.	1.6	8
5	Construction of a Dual Protease Column, Subzero (-30 oC) Chromatography System and Multi-channel Precision Temperature Controller for Hydrogen-Deuterium Exchange Mass Spectrometry. Journal of Research of the National Institute of Standards and Technology, 2020, 125, .	0.4	5
6	Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) Centroid Data Measured between 3.6 Â°C and 25.4 Â°C for the Fab Fragment of NISTmAb. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-7.	0.4	3
7	Interlaboratory Comparison of Hydrogenâ€"Deuterium Exchange Mass Spectrometry Measurements of the Fab Fragment of NISTmAb. Analytical Chemistry, 2019, 91, 7336-7345.	3.2	44
8	Effects of Distal Mutations on the Structure, Dynamics and Catalysis of Human Monoacylglycerol Lipase. Scientific Reports, 2018, 8, 1719.	1.6	28
9	Data on crystal organization in the structure of the Fab fragment from the NIST reference antibody, RM 8671. Data in Brief, 2018, 16, 29-36.	0.5	12
10	Automated Removal of Phospholipids from Membrane Proteins for H/D Exchange Mass Spectrometry Workflows. Analytical Chemistry, 2018, 90, 6409-6412.	3.2	16
11	Conformational Changes in Active and Inactive States of Human PP2CÎ± Characterized by Hydrogen/Deuterium Exchangeâ€"Mass Spectrometry. Biochemistry, 2017, 56, 2676-2689.	1.2	6
12	Biophysical characterization and structure of the Fab fragment from the NIST reference antibody, RM 8671. Biologicals, 2017, 50, 27-34.	0.5	23
13	Mapping of the Allosteric Site in Cholesterol Hydroxylase CYP46A1 for Efavirenz, a Drug That Stimulates Enzyme Activity. Journal of Biological Chemistry, 2016, 291, 11876-11886.	1.6	43
14	Mapping Proteinâ€"Ligand Interactions with Proteolytic Fragmentation, Hydrogen/Deuterium Exchange-Mass Spectrometry. Methods in Enzymology, 2016, 566, 357-404.	0.4	57
15	Emerging Technologies To Assess the Higher Order Structure of Monoclonal Antibodies. ACS Symposium Series, 2015, , 17-43.	0.5	10
16	A novel mechanism for regulating the activity of proliferating cell nuclear antigen by a small protein. Nucleic Acids Research, 2014, 42, 5776-5789.	6.5	13
17	Characterization of AlgMsp, an Alginate Lyase from Microbulbifer sp. 6532A. PLoS ONE, 2014, 9, e112939.	1.1	69
18	Effects of Desialylation on Human Î±1-Acid Glycoproteinâ€"Ligand Interactions. Biochemistry, 2013, 52, 7127-7136.	1.2	38

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19	Surface mediated assembly of small, metastable gold nanoclusters. Nanoscale, 2013, 5, 6558.	2.8	10
20	Reaction network governing diphosphine-protected gold nanocluster formation from nascent cationic platforms. Physical Chemistry Chemical Physics, 2012, 14, 4142.	1.3	29
21	Predictive Gold Nanocluster Formation Controlled by Metalâ€Ligand Complexes. Small, 2012, 8, 715-725.	5.2	32
22	Gold Cluster Formation with Phosphine Ligands: Etching as a Size-Selective Synthetic Pathway for Small Clusters?. ACS Nano, 2011, 5, 2989-3002.	7.3	112
23	Reaction Mechanism Governing Formation of 1,3-Bis(diphenylphosphino)propane-Protected Gold Nanoclusters. Inorganic Chemistry, 2011, 50, 10178-10189.	1.9	58
24	Synthetic Approach for Tunable, Size-Selective Formation of Monodisperse, Diphosphine-Protected Gold Nanoclusters. Journal of Physical Chemistry Letters, 2010, 1, 2536-2540.	2.1	80
25	Identification of Active Sites of Biomolecules II: Saccharide and Transition Metal Ion in Aqueous Solution. Journal of Physical Chemistry A, 2009, 113, 2491-2499.	1.1	12
26	Identification of Active Sites of Biomolecules. 1. Methyl-Î±-mannopyranoside and Fe^{III}. Journal of Physical Chemistry A, 2008, 112, 2940-2947.	1.1	16
27	Ligand Exchange Reactions in the Formation of Diphosphine-Protected Gold Clusters. Journal of Physical Chemistry C, 2008, 112, 12808-12814.	1.5	34
28	Glycosidic linkage conformation of methyl-Î±-mannopyranoside. Journal of Chemical Physics, 2008, 129, 045102.	1.2	10
29	A Hadamard transform electron ionization time-of-flight mass spectrometer. Review of Scientific Instruments, 2008, 79, 014102.	0.6	6
30	Impact of Swapping Ethyl for Phenyl Groups on Diphosphine-Protected Undecagold. Journal of Physical Chemistry C, 2007, 111, 14625-14627.	1.5	40
31	Ligand Dissociation and Core Fission from Diphosphine-Protected Gold Clusters. Journal of Physical Chemistry C, 2007, 111, 8195-8201.	1.5	40
32	Chlorination Chemistry. 3. Ab Initio Study of the Reaction of Chlorine Atom with Allene. Journal of Physical Chemistry A, 2002, 106, 1739-1745.	1.1	9
33	Chlorination Chemistry 4. Ab Initio Study of the Addition, Metathesis, and Isomerization Channels Governing the Reaction of Chlorine Atom with Propargyl Chloride. Journal of Physical Chemistry A, 2002, 106, 6143-6153.	1.1	5
34	Electronic Structure of BCl Determined by Ab Initio Calculations and Resonance-Enhanced Multiphoton Ionization Spectroscopyâ€. Journal of Physical Chemistry A, 2000, 104, 3800-3805.	1.1	17
35	Chlorination Chemistry. 2. Rate Coefficients, Reaction Mechanism, and Spectrum of the Chlorine Adduct of Allene. Journal of Physical Chemistry A, 2000, 104, 811-818.	1.1	17
36	Kinetic Studies of the Reactions of IO Radicals Determined by Cavity Ring-Down Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 6173-6180.	1.1	43

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37	Rate Coefficients for the Propargyl Radical Self-Reaction and Oxygen Addition Reaction Measured Using Ultraviolet Cavity Ring-down Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 4242-4252.	1.1	106
38	Chlorination Chemistry. 1. Rate Coefficients, Reaction Mechanisms, and Spectra of the Chlorine and Bromine Adducts of Propargyl Halides. Journal of Physical Chemistry A, 1999, 103, 7978-7989.	1.1	15
39	Spectroscopic characterization of the AsF2 radical. Journal of Chemical Physics, 1997, 106, 485-488.	1.2	9
40	Chemical Kinetic Studies Using Ultraviolet Cavity Ring-Down Spectroscopic Detection:Â Self-Reaction of Ethyl and Ethylperoxy Radicals and the Reaction O2+ C2H5â† ' C2H5O2. Journal of Physical Chemistry A, 1997, 101, 3901-3909.	1.1	79
41	Electronic Structure of the BF2Radical Determined byab InitioCalculations and Resonance-Enhanced Multiphoton Ionization Spectroscopy. Journal of Physical Chemistry A, 1997, 101, 2045-2049.	1.1	11
42	Evanescent wave cavity ring-down spectroscopy with a total-internal-reflection minicavity. Review of Scientific Instruments, 1997, 68, 2978-2989.	0.6	91
43	Evanescent wave cavity ring-down spectroscopy for probing surface processes. Chemical Physics Letters, 1997, 280, 104-112.	1.2	83
44	Ion-pair states of the ClO radical observed by multiphoton ionisation spectroscopy. Chemical Physics Letters, 1997, 272, 232-238.	1.2	11
45	Structural and Thermochemical Properties of Hydroxymethyl (CH2OH) Radicals and Cations Derived from Observations of Bl$f2Aâ€˜(3p) â†•Xl$f2Aâ€˜â€˜ Electronic Spectra and fromab InitioCalculations. The Journal of Physical Chemistry, 1996, 100, 19874-19890.	2.9	94
46	Excited electronic states of the SiF2 radical studied by resonance enhanced multiphoton ionisation spectroscopy and by ab initio methods. Chemical Physics Letters, 1996, 261, 474-480.	1.2	6
47	Resonance enhanced multiphoton ionization spectroscopy of the SnF radical. Journal of Chemical Physics, 1996, 104, 4406-4410.	1.2	2
48	Spectroscopy of the fluoromethylene radicals HCF and DCF by 2+1 resonance enhanced multiphoton ionization spectroscopy and by ab initio calculation. Journal of Chemical Physics, 1995, 103, 1303-1308.	1.2	21
49	<title>New spectroscopy of free radicals produced by the reactions of fluorine and chlorine with diborane</title>. , 1994, , .		2
50	Detection and characterization of gasâ€phase InCl using resonance enhanced multiphoton ionization. Journal of Chemical Physics, 1994, 100, 3422-3428.	1.2	8
51	Two-photon Rydberg series in atomic boron. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 763.	0.9	8
52	Electronic spectra of the heteroisotopic CH2D and CHD2 radicals by resonance enhanced multiphoton ionization. Journal of Chemical Physics, 1993, 98, 3732-3736.	1.2	34
53	Detection of11BF and10BF by resonanceâ€enhanced multiphoton ionization spectroscopy. Applied Physics Letters, 1993, 62, 1697-1698.	1.5	4
54	New electronic spectra of the CHFCl radical observed with resonance enhanced multiphoton ionization. Journal of Chemical Physics, 1993, 98, 1925-1932.	1.2	7

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55	Aluminum monochloride excited states observed by resonanceâ€enhanced multiphoton ionization spectroscopy. Journal of Chemical Physics, 1993, 99, 7521-7528.	1.2	13
56	Detection and characterization of gasâ€phase GaCl using resonance enhanced multiphoton ionization. Journal of Chemical Physics, 1992, 97, 8880-8885.	1.2	9
57	Triplet Rydberg states of the imidogen radical characterized via twoâ€photon resonanceâ€enhanced multiphoton ionization spectroscopy. Journal of Chemical Physics, 1992, 97, 7064-7072.	1.2	19
58	Triplet excited states of the NH(ND) radical revealed via two photon resonant multiphoton ionization spectroscopy. Journal of Chemical Physics, 1992, 96, 5538-5540.	1.2	12
59	Multiphoton ionization of SiH3 and SiD3 radicals. II. Threeâ€photon resonanceâ€enhanced spectra observed between 450 and 610 nm. Journal of Chemical Physics, 1991, 94, 5331-5340.	1.2	19
60	New electronic states of NH and ND observed from 258 to 288 nm by resonance enhanced multiphoton ionization spectroscopy. Journal of Chemical Physics, 1990, 92, 6420-6425.	1.2	20
61	Experimental and ab initio studies of electronic structures of the trichloromethyl radical and cation. Journal of the American Chemical Society, 1990, 112, 5763-5772.	6.6	48
62	Spectrum (310 to 360 nm) and ionization potential of the silyl radical. AIP Conference Proceedings, 1989, , .	0.3	0
63	Two Photon Resonance Enhanced Multiphoton Ionization Detection and Spectroscopy of Gas Phase Germyl (GeH[sub 3]) Radicals. AIP Conference Proceedings, 1989, , .	0.3	0
64	Multiphoton ionization of SiH3 and SiD3 radicals: Electronic spectra, vibrational analyses of the ground and Rydberg states, and ionization potentials. Journal of Chemical Physics, 1989, 91, 3340-3359.	1.2	45
65	Resonance enhanced multiphoton ionization spectra of the GeF and GeCl radicals from 400 to 500 nm. Journal of Chemical Physics, 1988, 89, 6064-6068.	1.2	7
66	The electronic spectrum of the GeH3 radical. Journal of Chemical Physics, 1988, 89, 4558-4563.	1.2	37
67	Resonance-enhanced multiphoton ionization spectroscopy of CHCl2 and CDCl2. AIP Conference Proceedings, 1988, , .	0.3	1
68	Resonance-enhanced multiphoton ionization spectra of SiCl between 430â€“520 nm. AIP Conference Proceedings, 1988, , .	0.3	0
69	Two photon resonance enhanced multiphoton ionization spectroscopy of gas phase O2 aâ€‰Î”g between 305â€“350 nm. Journal of Chemical Physics, 1987, 87, 1977-1981.	1.2	62
70	Multiphoton ionization spectra of radical products in the F(2P)+ketene system: Spectral assignments and formation reaction for CH2F, observation of CF and CH. Journal of Chemical Physics, 1987, 87, 4546-4558.	1.2	39
71	A new eletronic spectrum of the SiH3 radical observed using multiphoton ionization spectroscopy. Chemical Physics Letters, 1987, 141, 163-165.	1.2	24
72	Multiphoton ionization spectroscopy and vibrational analysis of a 3p Rydberg state of the hydroxymethyl radical. Journal of Chemical Physics, 1986, 84, 5262-5270.	1.2	35

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73	Observation of the 3s 2A1 Rydberg states of allyl and 2-methylallyl radicals with multiphoton ionization spectroscopy. The Journal of Physical Chemistry, 1985, 89, 1505-1509.	2.9	52
74	Detection of SiF radicals with multiphoton ionization spectroscopy. Chemical Physics Letters, 1985, 118, 444-447.	1.2	13
75	Multiphoton ionization spectroscopy of ClO and BrO. Journal of Chemical Physics, 1985, 82, 4426-4433.	1.2	35
76	Multiphoton ionization spectroscopy of the fluoromethyl radical. AIP Conference Proceedings, 1984, , .	0.3	0
77	Two photon resonance enhanced multiphoton ionization spectroscopy and state assignments of the methyl radical. Journal of Chemical Physics, 1983, 79, 571-582.	1.2	224
78	Detection of hydroxymethyl (CH2OH) radicals by resonance-enhanced multiphoton ionization spectroscopy. The Journal of Physical Chemistry, 1983, 87, 2296-2298.	2.9	33
79	New electronic states in CH3, observed using multiphoton ionization. Journal of Chemical Physics, 1982, 76, 3337-3338.	1.2	25
80	Discrete and quasicontinuum level fluorescence from infrared multiphoton excited SF6. Journal of Chemical Physics, 1982, 76, 173-188.	1.2	36
81	Multiphoton ionization of the trifluoromethyl radical. The Journal of Physical Chemistry, 1982, 86, 4156-4161.	2.9	18
82	â€˜â€˜Resonance enhanced multiphoton ionizaton of the trifluoromethyl radialâ€™â€™. , 1982, , .		0
83	Multiphoton ionization and fragmentation mechanism of CS2. Chemical Physics, 1982, 70, 63-68.	0.9	11
84	Selective multiphoton ionization of geometric isomers. cis- and trans-1,2-Dichloroethene. The Journal of Physical Chemistry, 1981, 85, 761-762.	2.9	11
85	Detection of gas-phase methyl radicals using multiphoton ionization. Chemical Physics Letters, 1981, 82, 267-269.	1.2	36
86	Energy redistribution observed in infrared multiphoton excited C2F5Cl. Journal of Chemical Physics, 1981, 74, 1510-1511.	1.2	7
87	ArF excimer laser multiphoton-ionization mass spectrometry of organic molecules. International Journal of Mass Spectrometry and Ion Physics, 1980, 34, 159-173.	1.3	49
88	Infrared laser driven reverse internal conversion in carbonyl fluoride. Journal of Chemical Physics, 1979, 70, 5906-5907.	1.2	22
89	Production, detection and reactions of the CH radical. Chemical Physics Letters, 1979, 63, 104-107.	1.2	43
90	Observation of OH (Ï… = 0, 1) in the reactions of O(3P) with HCl (Ï… = 0, 1, 2). Chemical Physics Letters, 1978, 58, 216-220.	1.2	36

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91	In situ studies of infrared multiple photon laserâ€induced decomposition of CF2Cl2 and CFCl3. Journal of Chemical Physics, 1978, 68, 777-778.	1.2	46
92	Infrared chemiluminescence study of the effects of increased relative translation upon the reaction: H+ICl→HCl(vâ€²,Jâ€²) +I. Journal of Chemical Physics, 1977, 67, 3401-3403.	1.2	17
93	Infrared chemiluminescence studies of the reactions of oxygen (3P) atoms with carbon disulfide and carbon monosulfide. Journal of Chemical Physics, 1976, 64, 2528.	1.2	39
94	Infrared chemiluminescence studies of the reaction of fluorine atoms with monosubstituted ethylene compounds. Journal of Chemical Physics, 1974, 60, 4790-4799.	1.2	99
95	Chromatography at â˜30 Â°C for Reduced Back-Exchange, Reduced Carryover, and Improved Dynamic Range for Hydrogenâ€“Deuterium Exchange Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 0, , .	1.2	9