Valerie Blanchet

List of Publications by Year
in descending order

88	3,583	172457 29	133252 59
papers	citations	h-index	g-index

89	89	89	2565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoelectron elliptical dichroism spectroscopy of resonance-enhanced multiphoton ionization via the 3s, 3p and 3d Rydberg series in fenchone. Physical Chemistry Chemical Physics, 2022, 24, 6415-6427.	2.8	10
2	Time-resolved photoelectron spectroscopy: the continuing evolution of a mature technique. Physical Chemistry Chemical Physics, 2022, 24, 20012-20024.	2.8	20
3	Ultrafast polarization-tunable monochromatic extreme ultraviolet source at high-repetition-rate. Journal of Optics (United Kingdom), 2022, 24, 084003.	2.2	4
4	Aromatic Formation Promoted by Ion-Driven Radical Pathways in EUV Photochemical Experiments Simulating Titanâ€™s Atmospheric Chemistry. Journal of Physical Chemistry A, 2021, 125, 3159-3168.	2.5	5
5	Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Pure and Saline Water. Langmuir, 2021, 37, 5783-5794.	3.5	20
6	Femtosecond-resolved Rydberg states dynamics in chiral molecules. , 2021, , .		0
7	Subâ€Picosecond Nonâ€Equilibrium States in the Amorphous Phase of GeTe Phaseâ€Change Material Thin Films. Advanced Materials, 2021, 33, e2102721.	21.0	8
8	Ultrafast relaxation investigated by photoelectron circular dichroism: an isomeric comparison of camphor and fenchone. Physical Chemistry Chemical Physics, 2021, 23, 25612-25628.	2.8	11
9	Revealing the Influence of Molecular Chirality on Tunnel-Ionization Dynamics. Physical Review X, 2021, 11, .	8.9	7
10	Controlling sub-cycle instantaneous optical chirality in the photoionization of chiral molecules. Journal of Physics: Conference Series, 2020, 1412, 072027.	0.4	0
11	On an EUV Atmospheric Simulation Chamber to Study the Photochemical Processes of Titanâ€™s Atmosphere. Scientific Reports, 2020, 10, 10009.	3.3	5
12	Using photoelectron elliptical dichroism (PEELD) to determine realâ€time variation of enantiomeric excess. Chirality, 2020, 32, 1225-1233.	2.6	7
13	Surface chemistry of colloidal surfactant-free gold nanoparticles generated by laser ablation. Journal of Physics: Conference Series, 2020, 1412, 202022.	0.4	0
14	Aurore: A platform for ultrafast sciences. Review of Scientific Instruments, 2020, 91, 105104.	1.3	7
15	Isomerization and dehydrogenation of highly vibrationally excited azulene+ produced via S2 vibrational manifold. Chemical Physics Letters, 2020, 745, 137250.	2.6	2
16	Attosecond spectral singularities in solid-state high-harmonic generation. Nature Photonics, 2020, 14, 183-187.	31.4	94
17	Bright, polarization-tunable high repetition rate extreme ultraviolet beamline for coincidence electronâ€“ion imaging. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 234003.	1.5	12
18	Attosecond spectral singularities in solid-state high-harmonic generation. , 2020, , .		0

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19	Core-level Time Resolved Spectroscopy of Photoelectron Circular Dichroism in Fenchone. , 2020, , .		1
20	Controlling Subcycle Optical Chirality in the Photoionization of Chiral Molecules. Physical Review X, 2019, 9, .	8.9	38
21	Ultrafast electronic relaxations from the S₃ state of pyrene. Physical Chemistry Chemical Physics, 2019, 21, 14111-14125.	2.8	8
22	Photoexcitation circular dichroism in chiral molecules. Nature Physics, 2018, 14, 484-489.	16.7	145
23	Real-time determination of enantiomeric and isomeric content using photoelectron elliptical dichroism. Nature Communications, 2018, 9, 5212.	12.8	65
24	Multiphoton photoelectron circular dichroism of limonene with independent polarization state control of the bound-bound and bound-continuum transitions. Journal of Chemical Physics, 2018, 149, 134301.	3.0	13
25	Depth Profiling of the Chemical Composition of Free-Standing Carbon Dots Using X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 14889-14897.	3.1	20
26	Attosecond-Resolved Photoionization of Chiral Molecules. , 2018, , .		0
27	Attosecond-resolved photoionization of chiral molecules. Science, 2017, 358, 1288-1294.	12.6	150
28	Universality of photoelectron circular dichroism in the photoionization of chiral molecules. New Journal of Physics, 2016, 18, 102002.	2.9	83
29	Determination of accurate electron chiral asymmetries in fenchone and camphor in the VUV range: sensitivity to isomerism and enantiomeric purity. Physical Chemistry Chemical Physics, 2016, 18, 12696-12706.	2.8	80
30	Using high harmonic radiation to reveal the ultrafast dynamics of radiosensitiser molecules. Faraday Discussions, 2016, 194, 407-425.	3.2	5
31	Probing ultrafast dynamics of chiral molecules using time-resolved photoelectron circular dichroism. Faraday Discussions, 2016, 194, 325-348.	3.2	65
32	Relaxation Dynamics in Photoexcited Chiral Molecules Studied by Time-Resolved Photoelectron Circular Dichroism: Toward Chiral Femtochemistry. Journal of Physical Chemistry Letters, 2016, 7, 4514-4519.	4.6	81
33	Toward Femtochemistry with Circular Polarized Pulses. , 2016, , .		0
34	Probing Ultrafast Molecular Chirality. , 2016, , .		0
35	Combined high-harmonic interferometries for vectorial spectroscopy. Optics Letters, 2015, 40, 5387.	3.3	8
36	Multi-channel electronic and vibrational dynamics in polyatomic resonant high-order harmonic generation. Nature Communications, 2015, 6, 5952.	12.8	64

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37	Probing molecular chirality on a sub-femtosecondÂtimescale. Nature Physics, 2015, 11, 654-658.	16.7	219
38	Femtosecond time-resolved electronic relaxation dynamics in tetrathiafulvalene. Journal of Chemical Physics, 2015, 142, 194306.	3.0	3
39	A table-top ultrashort light source in the extreme ultraviolet for circular dichroism experiments. Nature Photonics, 2015, 9, 93-98.	31.4	217
40	High-order harmonic transient grating spectroscopy of SF₆molecular vibrations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124023.	1.5	11
41	268 nm photodissociation of ClN₃: a femtosecond velocity-map imaging study. Physical Chemistry Chemical Physics, 2014, 16, 540-549.	2.8	1
42	Dissociation of the Anthracene Radical Cation: A Comparative Look at iPEPICO and Collision-Induced Dissociation Mass Spectrometry Results. Journal of Physical Chemistry A, 2014, 118, 9870-9878.	2.5	24
43	Photodissociation of Pyrene Cations: Structure and Energetics from C₁₆H₁₀⁺ to C₁₄⁺ and Almost Everything in Between. Journal of Physical Chemistry A, 2014, 118, 7824-7831.	2.5	60
44	Dynamics of Hydrogen and Methyl Radical Loss from Ionized Dihydro-Polycyclic Aromatic Hydrocarbons: A Tandem Mass Spectrometry and Imaging Photoelectronâ€“Photoion Coincidence (iPEPICO) Study of Dihydronaphthalene and Dihydrophenanthrene. Journal of Physical Chemistry A, 2014, 118, 1807-1816.	2.5	19
45	Inhomogeneous High Harmonic Generation in Krypton Clusters. Physical Review Letters, 2013, 110, 083902.	7.8	68
46	Comparing Femtosecond Multiphoton Dissociative Ionization of Tetrathiafulvene with Imaging Photoelectron Photoion Coincidence Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 2753-2759.	2.5	2
47	Communication: Existence of the doubly excited state that mediates the photoionization of azulene. Journal of Chemical Physics, 2013, 138, 201102.	3.0	14
48	High-harmonic transient grating spectroscopy of NO2 electronic relaxation. Journal of Chemical Physics, 2012, 137, 224303.	3.0	23
49	Femtosecond resolved dynamics in small polyatomic molecules by velocity map imaging. , 2012, , .		0
50	On the Dissociation of the Naphthalene Radical Cation: New iPEPICO and Tandem Mass Spectrometry Results. Journal of Physical Chemistry A, 2012, 116, 10999-11007.	2.5	69
51	Inhomogeneous High Harmonic Generation in Krypton Clusters. , 2012, , .		0
52	Time-resolved predissociation of the vibrationless level of the B state of CH3I. Physical Chemistry Chemical Physics, 2011, 13, 18485.	2.8	23
53	Conical Intersection Dynamics in NO ₂ Probed by Homodyne High-Harmonic Spectroscopy. Science, 2011, 334, 208-212.	12.6	222
54	Threshold photoelectron study of naphthalene, anthracene, pyrene, 1,2-dihydronaphthalene, and 9,10-dihydroanthracene. Journal of Chemical Physics, 2011, 134, 244312.	3.0	42

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55	Achromatic transient-grating for FROG characterization. , 2011, , .		0
56	Des Ã©tats super-excitÃ©s vers une empreinte Rydberg. , 2011, , .		0
57	The photodissociation of NO2 by visible and ultraviolet light. Physical Chemistry Chemical Physics, 2010, 12, 15766.	2.8	8
58	Quantum Interference in NO₂. Journal of Physical Chemistry A, 2010, 114, 3167-3175.	2.5	13
59	Time-resolved photoelectron spectroscopy of the CH3I B1E 6s [2] state. Physical Chemistry Chemical Physics, 2010, 12, 15644.	2.8	22
60	Imaging fast relaxation dynamics of NO₂. Physica Scripta, 2009, 80, 048106.	2.5	7
61	UV photodissociation of methyl bromide and methyl bromide cation studied by velocity map imaging. Journal of Chemical Physics, 2009, 130, 034304.	3.0	37
62	Time-dependent photoionization of azulene: Optically induced anistropy on the femtosecond scale. Chemical Physics Letters, 2008, 460, 59-63.	2.6	5
63	Time-dependent photoionization of azulene: Competition between ionization and relaxation in highly excited states. Journal of Chemical Physics, 2008, 128, 164318.	3.0	19
64	Time-resolved four-wave-mixing spectroscopy of excitons in a single quantum well. Physical Review B, 2007, 75, .	3.2	13
65	Coherent Control in Atoms, Molecules and Solids. , 2005, , 333-394.		2
66	Relaxation of photoexcited Na $_mathsf{3}$ F. European Physical Journal D, 2004, 28, 361-366.	1.3	8
67	Vibrational relaxation of photoexcited Na3F. , 2004, , 57-60.		0
68	Relaxation de Na3F photoexcitÃ©. European Physical Journal Special Topics, 2004, 119, 211-212.	0.2	0
69	Role of the radiated field in the propagation of an ultra-short chirped pulse. Optics Communications, 2003, 227, 125-131.	2.1	5
70	The predissociation of highly excited states in acetylene by time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2003, 119, 3763-3773.	3.0	17
71	(3+1)-resonantly enhanced multiphoton ionization-photoelectron spectroscopy of the (3d-4s) supercomplex of acetylene: The geometry of the E state revisited through experiment and theory. Journal of Chemical Physics, 2003, 119, 3751-3762.	3.0	12
72	Polyatomic molecules in strong laser fields: Nonadiabatic multielectron dynamics. Journal of Chemical Physics, 2002, 117, 1575-1588.	3.0	169

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73	Observation de transitoires cohÃ©rents excitÃ©s par une impulsion ultracourte Ã dÃ©rive de frÃ©quence. European Physical Journal Special Topics, 2002, 12, 251-252.	0.2	0
74	Toward Polyatomic Wave Packet Decomposition:Â Final State Effectsâ€. Journal of Physical Chemistry A, 2001, 105, 2756-2763.	2.5	13
75	Nonadiabatic Multielectron Dynamics in Strong Field Molecular Ionization. Physical Review Letters, 2001, 86, 51-54.	7.8	196
76	Observation of Coherent Transients in Ultrashort Chirped Excitation of an Undamped Two-Level System. Physical Review Letters, 2001, 87, 033001.	7.8	85
77	Electronic continua in time-resolved photoelectron spectroscopy. I. Complementary ionization correlations. Journal of Chemical Physics, 2001, 114, 1194-1205.	3.0	69
78	Ultrashort Wavepacket Dynamics and Interferences in Alkali Atoms. , 2001, , 145-160.		0
79	Pump probe experiment in atomic fine structure levels: Observation of the oscillation of an angular wavepacket. European Physical Journal D, 2000, 12, 255-261.	1.3	29
80	Towards disentangling coupled electronicâ€“vibrational dynamics in ultrafast non-adiabatic processes. Faraday Discussions, 2000, 115, 33-48.	3.2	37
81	Discerning vibronic molecular dynamics using time-resolved photoelectron spectroscopy. Nature, 1999, 401, 52-54.	27.8	262
82	Temporal coherent control induced by wave packet interferences in one and two photon atomic transitions. European Physical Journal D, 1998, 2, 131-141.	1.3	59
83	Nonadiabatic dynamics in polyatomic systems studied by femtosecond time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 1998, 108, 4371-4374.	3.0	61
84	Temporal coherent control in the photoionization of Cs2: Theory and experiment. Journal of Chemical Physics, 1998, 108, 4862-4876.	3.0	98
85	Temporal Coherent Control in Two-Photon Transitions: From Optical Interferences to Quantum Interferences. Physical Review Letters, 1997, 78, 2716-2719.	7.8	191
86	One-color coherent control in Cs2. Observation of 2.7 fs beats in the ionization signal. Chemical Physics Letters, 1995, 233, 491-499.	2.6	80
87	Optical phase conjugation in aqueous rhodamine 6G solutions and in rhodamine 6G embedded in polyvinyl alcohol films. Canadian Journal of Physics, 1993, 71, 442-447.	1.1	2
88	Relaxation of optically induced anisotropy in azulene. , 0, , .		0