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	Discerning vibronic molecular dynamics using time-resolved photoelectron spectroscopy. Nature, 1999, 401, 52-54.	27.8	262
2	Conical Intersection Dynamics in NO ₂ Probed by Homodyne High-Harmonic Spectroscopy. Science, 2011, 334, 208-212.	12.6	222
3	Probing molecular chirality on a sub-femtosecondÂtimescale. Nature Physics, 2015, 11, 654-658.	16.7	219
4	A table-top ultrashort light source in the extreme ultraviolet for circular dichroism experiments. Nature Photonics, 2015, 9, 93-98.	31.4	217
5	Nonadiabatic Multielectron Dynamics in Strong Field Molecular Ionization. Physical Review Letters, 2001, 86, 51-54.	7.8	196
6	Temporal Coherent Control in Two-Photon Transitions: From Optical Interferences to Quantum Interferences. Physical Review Letters, 1997, 78, 2716-2719.	7.8	191
7	Polyatomic molecules in strong laser fields: Nonadiabatic multielectron dynamics. Journal of Chemical Physics, 2002, 117, 1575-1588.	3.0	169
8	Attosecond-resolved photoionization of chiral molecules. Science, 2017, 358, 1288-1294.	12.6	150
9	Photoexcitation circular dichroism in chiral molecules. Nature Physics, 2018, 14, 484-489.	16.7	145
10	Temporal coherent control in the photoionization of Cs2: Theory and experiment. Journal of Chemical Physics, 1998, 108, 4862-4876.	3.0	98
11	Attosecond spectral singularities in solid-state high-harmonic generation. Nature Photonics, 2020, 14, 183-187.	31.4	94
12	Observation of Coherent Transients in Ultrashort Chirped Excitation of an Undamped Two-Level System. Physical Review Letters, 2001, 87, 033001.	7.8	85
13	Universality of photoelectron circular dichroism in the photoionization of chiral molecules. New Journal of Physics, 2016, 18, 102002.	2.9	83
14	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
15	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
16	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
17	Electronic continua in time-resolved photoelectron spectroscopy. I. Complementary ionization correlations. Journal of Chemical Physics, 2001, 114, 1194-1205.	3.0	69
18	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

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19	Inhomogeneous High Harmonic Generation in Krypton Clusters. Physical Review Letters, 2013, 110, 083902.	7.8	68
20	Probing ultrafast dynamics of chiral molecules using time-resolved photoelectron circular dichroism. Faraday Discussions, 2016, 194, 325-348.	3.2	65
21	Real-time determination of enantiomeric and isomeric content using photoelectron elliptical dichroism. Nature Communications, 2018, 9, 5212.	12.8	65
22	Multi-channel electronic and vibrational dynamics in polyatomic resonant high-order harmonic generation. Nature Communications, 2015, 6, 5952.	12.8	64
23	Nonadiabatic dynamics in polyatomic systems studied by femtosecond time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 1998, 108, 4371-4374.	3.0	61
24	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
25	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
26	Threshold photoelectron study of naphthalene, anthracene, pyrene, 1,2-dihydronaphthalene, and 9,10-dihydroanthracene. Journal of Chemical Physics, 2011, 134, 244312.	3.0	42
27	Controlling Subcycle Optical Chirality in the Photoionization of Chiral Molecules. Physical Review X, 2019, 9, .	8.9	38
28	Towards disentangling coupled electronicâ€“vibrational dynamics in ultrafast non-adiabatic processes. Faraday Discussions, 2000, 115, 33-48.	3.2	37
29	UV photodissociation of methyl bromide and methyl bromide cation studied by velocity map imaging. Journal of Chemical Physics, 2009, 130, 034304.	3.0	37
30	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
31	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
32	Time-resolved predissociation of the vibrationless level of the B state of CH3I. Physical Chemistry Chemical Physics, 2011, 13, 18485.	2.8	23
33	High-harmonic transient grating spectroscopy of NO2 electronic relaxation. Journal of Chemical Physics, 2012, 137, 224303.	3.0	23
34	Time-resolved photoelectron spectroscopy of the CH3I B1E 6s [2] state. Physical Chemistry Chemical Physics, 2010, 12, 15644.	2.8	22
35	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
36	Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Pure and Saline Water. Langmuir, 2021, 37, 5783-5794.	3.5	20

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37	Time-resolved photoelectron spectroscopy: the continuing evolution of a mature technique. Physical Chemistry Chemical Physics, 2022, 24, 20012-20024.	2.8	20
38	Time-dependent photoionization of azulene: Competition between ionization and relaxation in highly excited states. Journal of Chemical Physics, 2008, 128, 164318.	3.0	19
39	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
40	The predissociation of highly excited states in acetylene by time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2003, 119, 3763-3773.	3.0	17
41	Communication: Existence of the doubly excited state that mediates the photoionization of azulene. Journal of Chemical Physics, 2013, 138, 201102.	3.0	14
42	Toward Polyatomic Wave Packet Decomposition:Â Final State Effectsâ€. Journal of Physical Chemistry A, 2001, 105, 2756-2763.	2.5	13
43	Time-resolved four-wave-mixing spectroscopy of excitons in a single quantum well. Physical Review B, 2007, 75, .	3.2	13
44	Quantum Interference in NO₂. Journal of Physical Chemistry A, 2010, 114, 3167-3175.	2.5	13
45	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
46	(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
47	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
48	High-order harmonic transient grating spectroscopy of SF₆molecular vibrations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124023.	1.5	11
49	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
50	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
51	Relaxation of photoexcited Na $_mathsf{3}$ F. European Physical Journal D, 2004, 28, 361-366.	1.3	8
52	The photodissociation of NO2 by visible and ultraviolet light. Physical Chemistry Chemical Physics, 2010, 12, 15766.	2.8	8
53	Combined high-harmonic interferometries for vectorial spectroscopy. Optics Letters, 2015, 40, 5387.	3.3	8
54	Ultrafast electronic relaxations from the S₃ state of pyrene. Physical Chemistry Chemical Physics, 2019, 21, 14111-14125.	2.8	8

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55	Subâ€Picosecond Nonâ€Equilibrium States in the Amorphous Phase of GeTe Phaseâ€Change Material Thin Films. Advanced Materials, 2021, 33, e2102721.	21.0	8
56	Imaging fast relaxation dynamics of NO₂. Physica Scripta, 2009, 80, 048106.	2.5	7
57	Using photoelectron elliptical dichroism (PEELD) to determine realâ€time variation of enantiomeric excess. Chirality, 2020, 32, 1225-1233.	2.6	7
58	Aurore: A platform for ultrafast sciences. Review of Scientific Instruments, 2020, 91, 105104.	1.3	7
59	Revealing the Influence of Molecular Chirality on Tunnel-Ionization Dynamics. Physical Review X, 2021, 11, .	8.9	7
60	Role of the radiated field in the propagation of an ultra-short chirped pulse. Optics Communications, 2003, 227, 125-131.	2.1	5
61	Time-dependent photoionization of azulene: Optically induced anistropy on the femtosecond scale. Chemical Physics Letters, 2008, 460, 59-63.	2.6	5
62	Using high harmonic radiation to reveal the ultrafast dynamics of radiosensitiser molecules. Faraday Discussions, 2016, 194, 407-425.	3.2	5
63	On an EUV Atmospheric Simulation Chamber to Study the Photochemical Processes of Titanâ€™s Atmosphere. Scientific Reports, 2020, 10, 10009.	3.3	5
64	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
65	Ultrafast polarization-tunable monochromatic extreme ultraviolet source at high-repetition-rate. Journal of Optics (United Kingdom), 2022, 24, 084003.	2.2	4
66	Femtosecond time-resolved electronic relaxation dynamics in tetrathiafulvalene. Journal of Chemical Physics, 2015, 142, 194306.	3.0	3
67	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
68	Coherent Control in Atoms, Molecules and Solids. , 2005, , 333-394.		2
69	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
70	Isomerization and dehydrogenation of highly vibrationally excited azulene+ produced via S2 vibrational manifold. Chemical Physics Letters, 2020, 745, 137250.	2.6	2
71	268 nm photodissociation of ClN₃: a femtosecond velocity-map imaging study. Physical Chemistry Chemical Physics, 2014, 16, 540-549.	2.8	1
72	Core-level Time Resolved Spectroscopy of Photoelectron Circular Dichroism in Fenchone. , 2020, , .		1

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73	Vibrational relaxation of photoexcited Na3F. , 2004, , 57-60.		0
74	Relaxation of optically induced anisotropy in azulene. , 0, , .		0
75	Achromatic transient-grating for FROG characterization. , 2011, , .		0
76	Femtosecond resolved dynamics in small polyatomic molecules by velocity map imaging. , 2012, , .		0
77	Controlling sub-cycle instantaneous optical chirality in the photoionization of chiral molecules. Journal of Physics: Conference Series, 2020, 1412, 072027.	0.4	0
78	Surface chemistry of colloidal surfactant-free gold nanoparticles generated by laser ablation. Journal of Physics: Conference Series, 2020, 1412, 202022.	0.4	0
79	Femtosecond-resolved Rydberg states dynamics in chiral molecules. , 2021, , .		0
80	Ultrashort Wavepacket Dynamics and Interferences in Alkali Atoms. , 2001, , 145-160.		0
81	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
82	Relaxation de Na3F photoexcitÃ©. European Physical Journal Special Topics, 2004, 119, 211-212.	0.2	0
83	Des Ã©tats super-excitÃ©s vers une empreinte Rydberg. , 2011, , .		0
84	Inhomogeneous High Harmonic Generation in Krypton Clusters. , 2012, , .		0
85	Toward Femtochemistry with Circular Polarized Pulses. , 2016, , .		0
86	Probing Ultrafast Molecular Chirality. , 2016, , .		0
87	Attosecond-Resolved Photoionization of Chiral Molecules. , 2018, , .		0
88	Attosecond spectral singularities in solid-state high-harmonic generation. , 2020, , .		0