Peter P Radi

List of Publications by Year
in descending order

59 papers	1,080 citations	516710 16 h-index	414414 32 g-index
61 all docs	61 docs citations	61 times ranked	1242 citing authors

#	Article	IF	Citations
1	Rovibrational investigation of a new high-lying 0u+ state of Cu₂ by using two-color resonant four-wave-mixing spectroscopy. Journal of Chemical Physics, 2022, 156, 184305.	3.0	0
2	Observation of a gerade symmetry state of Cu 2 using twoâ€color resonant fourâ€wave mixing. Journal of Raman Spectroscopy, 2020, 51, 1970-1976.	2.5	4
3	The ion-pair character of the B<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si38.svg"><mml:mrow><mml:msup><mml:mrow><mml:mn>0</mml:mn></mml:mrow><mml:mrow><mml:mo>+</mml:mo> state of CuAg. Journal of Molecular Spectroscopy, 2020, 372, 111326.	1.2	1
4	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	31.4	140
5	Accurate ground state potential of Cu2 up to the dissociation limit by perturbation assisted double-resonant four-wave mixing. Journal of Chemical Physics, 2020, 153, 244305.	3.0	4
6	Spectroscopic disentanglement of the quantum states of highly excited Cu2. Nature Communications, 2019, 10, 3270.	12.8	5
7	New experimental and theoretical assessment of the dissociation energy of C₂. Molecular Physics, 2019, 117, 1645-1652.	1.7	9
8	Nonlinear XUV-optical transient grating spectroscopy at the Si L2,3â€“edge. Applied Physics Letters, 2019, 114, 181101.	3.3	15
9	Opportunities for Chemistry at the SwissFEL X-ray Free Electron Laser. Chimia, 2017, 71, 299.	0.6	11
10	Experimental and theoretical investigation of the vibrational band structure of the 1â€‰Îu5â€“1â€‰Îg5 high-spin system of C2. Journal of Chemical Physics, 2017, 146, 114309.	3.0	11
11	Rovibrational Characterization of High-Lying Electronic States of Cu₂ by Double-Resonant Nonlinear Spectroscopy. Journal of Physical Chemistry A, 2017, 121, 8448-8452.	2.5	5
12	Identification of a new low energy 1u state in dicopper with resonant four-wave mixing. Journal of Chemical Physics, 2017, 147, 214308.	3.0	5
13	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	2.5	272
14	Helicity-induced shapes of resonant four-wave mixing responses from photofragments. Journal of Physics: Conference Series, 2017, 810, 012019.	0.4	0
15	Unraveling the electronic structure of transition metal dimers using resonant fourâ€wave mixing. Journal of Raman Spectroscopy, 2016, 47, 425-431.	2.5	9
16	Advances in nonlinear optical spectroscopies: a historical perspective of developments and applications presented at ECONOS. Journal of Raman Spectroscopy, 2016, 47, 1111-1123.	2.5	5
17	Perturbation-facilitated detection of the first quintet-quintet band in C2. Journal of Chemical Physics, 2015, 142, 094313.	3.0	23
18	Line-space description of resonant four-wave mixing: Theory for isotropic molecular states. Journal of Chemical Physics, 2014, 140, 194302.	3.0	4

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19	Development and applications of nonlinear optical spectroscopy: 11th ECONOS/32nd ECW meeting in Exeter (UK). Journal of Raman Spectroscopy, 2014, 45, 487-488.	2.5	1
20	Resonant four-wave mixing spectra: A fresh look at photodissociation dynamics. Journal of Physics: Conference Series, 2014, 548, 012016.	0.4	0
21	Polarizationâ€•and timeâ€resolved DFWM spectroscopy of the A ²Î£⁺âˆ’ X ²Î (0,0) band transitions of nascent OH radicals generated by 266â€‰nm laser photolysis of H₂O₂. Journal of Raman Spectroscopy, 2013, 44, 1349-1355.	2.5	9
22	Perturbation facilitated two-color four-wave-mixing spectroscopy of C3. Journal of Chemical Physics, 2013, 139, 154203.	3.0	15
23	Development and applications of nonlinear optical spectroscopy: the joint 11th ECONOS and 31st ECW meeting in Aberdeen, Scotland. Journal of Raman Spectroscopy, 2013, 44, 1317-1318.	2.5	1
24	Development and applications of nonlinear optical spectroscopy: 10th ECONOS/30th ECW meeting in Enschede, The Netherlands. Journal of Raman Spectroscopy, 2012, 43, 593-594.	2.5	1
25	Shedding light on a dark state: The energetically lowest quintet state of C$_2$2. Journal of Chemical Physics, 2011, 134, 044302.	3.0	28
26	Dissection of dispersed offâ€resonant femtosecond degenerate fourâ€wave mixing of O₂. Journal of Raman Spectroscopy, 2011, 42, 1848-1853.	2.5	3
27	Development and applications of nonlinear optical spectroscopy â€“ 9th ECONOS / 29th ECW meeting in Bremen, Germany. Journal of Raman Spectroscopy, 2011, 42, 1825-1827.	2.5	1
28	Direct absorption transitions to highly excited polyads 8, 10, and 12 of methane. Physical Review A, 2010, 82, .	2.5	13
29	Degenerate and twoâ€color resonant fourâ€wave mixing of C₂^{âˆ’} in a molecular beam environment. Journal of Raman Spectroscopy, 2010, 41, 853-858.	2.5	17
30	Deperturbation study of the state of C2 by applying degenerate and two-color resonant four-wave mixing. Journal of Molecular Spectroscopy, 2010, 262, 69-74.	1.2	18
31	Rotationally Resolved Ground State Vibrational Levels of HC2S Studied by Two-Color Resonant Four-Wave Mixing. Journal of Physical Chemistry A, 2010, 114, 3329-3333.	2.5	6
32	Rotationally resolved spectroscopy and dynamics of the 3pxâ€‰1A2 Rydberg state of formaldehyde. Physical Chemistry Chemical Physics, 2010, 12, 15592.	2.8	2
33	New trends and recent advances in coherent Raman microscopy and nonlinear optical spectroscopy: introduction to the special issue. Journal of Raman Spectroscopy, 2009, 40, 712-713.	2.5	9
34	Detection of vibrational overtone excitation in methane by laserâ€induced grating spectroscopy. Journal of Raman Spectroscopy, 2008, 39, 730-738.	2.5	16
35	New developments in nonlinear spectroscopy: ECONOS meeting in St. Petersburg. Journal of Raman Spectroscopy, 2008, 39, 692-693.	2.5	1
36	Electronic spectra of radicals in a supersonic slit-jet discharge by degenerate and two-color four-wave mixing. Physical Chemistry Chemical Physics, 2008, 10, 136-141.	2.8	17

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37	TheËœA²Î_{3/2}â˜ËœX²Î_{3/2}electronic transition of HC₄S isotopologues. Molecular Physics, 2008, 106, 2709-2715.	1.7	3
38	Multiplex spectroscopy of stable and transient species in a molecular beam. Journal of Raman Spectroscopy, 2007, 38, 1022-1031.	2.5	19
39	ECONOS in the epoch of CARS renaissance. Journal of Raman Spectroscopy, 2007, 38, 960-962.	2.5	2
40	Degenerate and two-color resonant four-wave mixing applied to the rotational characterization of high-lying vibrational states of formaldehyde (Ãƒ,1A2). Journal of Raman Spectroscopy, 2006, 37, 376-383.	2.5	17
41	Comparative study of degenerate four-wave mixing and cavity ringdown signal intensities of formaldehyde in a molecular beam. Journal of Raman Spectroscopy, 2006, 37, 680-688.	2.5	11
42	New developments in non-linear optical spectroscopy. Journal of Raman Spectroscopy, 2006, 37, 630-632.	2.5	3
43	Photo-fragment excitation spectroscopy (PHOFEX) by DFWM and LIF: propensities for H2CO ? HCO + H near the So threshold. Journal of Raman Spectroscopy, 2005, 36, 109-115.	2.5	16
44	Non-linear Raman spectroscopy 75 years after the Nobel Prize for the discovery of Raman scattering and 40 years after the first CARS experiments. Journal of Raman Spectroscopy, 2005, 36, 92-94.	2.5	5
45	Gas phase diagnostics by laser-induced gratings I. theory. Applied Physics B: Lasers and Optics, 2005, 81, 101-111.	2.2	44
46	Gas-phase diagnostics by laser-induced gratings II. Experiments. Applied Physics B: Lasers and Optics, 2005, 81, 113-129.	2.2	31
47	Stimulated emission pumping by two-color resonant four-wave mixing: rotational characterization of vibrationally excited HCO (XÌƒ 2 Aâ€²). Journal of Raman Spectroscopy, 2003, 34, 1037-1044.	2.5	16
48	Preface to the second special issue on non-linear Raman spectroscopy and related techniques. Journal of Raman Spectroscopy, 2003, 34, 919-921.	2.5	1
49	Collision induced rotational energy transfer probed by time-resolved coherent anti-Stokes Raman scattering. Journal of Chemical Physics, 2003, 118, 8223-8233.	3.0	41
50	State-resolved collisional energy transfer of OH, NH and H2CO by two-color resonant four-wave mixing spectroscopy. Journal of Raman Spectroscopy, 2002, 33, 925-933.	2.5	11
51	Pressure-dependent N2 Q-branch fs-CARS measurements. Journal of Raman Spectroscopy, 2002, 33, 861-865.	2.5	48
52	Determination of rotational constants in a molecule by femtosecond four-wave mixing. Journal of Raman Spectroscopy, 2000, 31, 71-76.	2.5	40
53	Title is missing!. Flow, Turbulence and Combustion, 2000, 64, 183-196.	2.6	7
54	Collision-induced resonances in two-color resonant four-wave mixing spectra. Physical Review A, 2000, 63, .	2.5	10

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55	Determination of rotational constants in a molecule by femtosecond four-wave mixing. , 2000, 31, 71.		1
56	Determination of rotational constants in a molecule by femtosecond fourâ€wave mixing. Journal of Raman Spectroscopy, 2000, 31, 71-76.	2.5	2
57	Femtosecond photoionization of (H2O)n and (D2O)n clusters. Journal of Chemical Physics, 1999, 111, 512-518.	3.0	32
58	Picosecond investigation of the collisional deactivation of OH A^2Î£^+(vâ€² = 1, Nâ€² = 4, 12) in an atmospheric-pressure flame. Applied Optics, 1998, 37, 3354.	2.1	27
59	Degenerate Four-Wave Mixing of S2and OH in Fuel-Rich Propane/Air/ S02Flames. Combustion Science and Technology, 1996, 119, 375-393.	2.3	12