

Peter P Radi

List of Publications by Year in descending order

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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	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	2.5	272
2	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
3	Pressure-dependent N ₂ Q-branch fs-CARS measurements. Journal of Raman Spectroscopy, 2002, 33, 861-865.	2.5	48
4	Gas phase diagnostics by laser-induced gratings I. theory. Applied Physics B: Lasers and Optics, 2005, 81, 101-111.	2.2	44
5	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
6	Determination of rotational constants in a molecule by femtosecond four-wave mixing. Journal of Raman Spectroscopy, 2000, 31, 71-76.	2.5	40
7	Femtosecond photoionization of (H ₂ O) _n and (D ₂ O) _n clusters. Journal of Chemical Physics, 1999, 111, 512-518.	3.0	32
8	Gas-phase diagnostics by laser-induced gratings II. Experiments. Applied Physics B: Lasers and Optics, 2005, 81, 113-129.	2.2	31
9	Shedding light on a dark state: The energetically lowest quintet state of C ₂ . Journal of Chemical Physics, 2011, 134, 044302.	3.0	28
10	Picosecond investigation of the collisional deactivation of OH A ² Σ ⁺ (v=1, N=4, 12) in an atmospheric-pressure flame. Applied Optics, 1998, 37, 3354.	2.1	27
11	Perturbation-facilitated detection of the first quintet-quintet band in C ₂ . Journal of Chemical Physics, 2015, 142, 094313.	3.0	23
12	Multiplex spectroscopy of stable and transient species in a molecular beam. Journal of Raman Spectroscopy, 2007, 38, 1022-1031.	2.5	19
13	Deperturbation study of the state of C ₂ by applying degenerate and two-color resonant four-wave mixing. Journal of Molecular Spectroscopy, 2010, 262, 69-74.	1.2	18
14	Degenerate and two-color resonant four-wave mixing applied to the rotational characterization of high-lying vibrational states of formaldehyde (A ₁ , 1A ₂). Journal of Raman Spectroscopy, 2006, 37, 376-383.	2.5	17
15	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
16	Degenerate and two-color resonant four-wave mixing of C ₂ ⁺ in a molecular beam environment. Journal of Raman Spectroscopy, 2010, 41, 853-858.	2.5	17
17	Stimulated emission pumping by two-color resonant four-wave mixing: rotational characterization of vibrationally excited HCO (X ¹ Σ ⁺). Journal of Raman Spectroscopy, 2003, 34, 1037-1044.	2.5	16
18	Photo-fragment excitation spectroscopy (PHOFEX) by DFWM and LIF: propensities for H ₂ CO → HCO + H near the S ₀ threshold. Journal of Raman Spectroscopy, 2005, 36, 109-115.	2.5	16

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19	Detection of vibrational overtone excitation in methane by laser-induced grating spectroscopy. Journal of Raman Spectroscopy, 2008, 39, 730-738.	2.5	16
20	Perturbation facilitated two-color four-wave-mixing spectroscopy of C ₃ . Journal of Chemical Physics, 2013, 139, 154203.	3.0	15
21	Nonlinear XUV-optical transient grating spectroscopy at the Si L _{2,3} edge. Applied Physics Letters, 2019, 114, 181101.	3.3	15
22	Direct absorption transitions to highly excited polyads 8, 10, and 12 of methane. Physical Review A, 2010, 82, .	2.5	13
23	Degenerate Four-Wave Mixing of S ₂ and OH in Fuel-Rich Propane/Air/ S ₂ Flames. Combustion Science and Technology, 1996, 119, 375-393.	2.3	12
24	State-resolved collisional energy transfer of OH, NH and H ₂ CO by two-color resonant four-wave mixing spectroscopy. Journal of Raman Spectroscopy, 2002, 33, 925-933.	2.5	11
25	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
26	Opportunities for Chemistry at the SwissFEL X-ray Free Electron Laser. Chimia, 2017, 71, 299.	0.6	11
27	Experimental and theoretical investigation of the vibrational band structure of the $1\sigma_g^2$ high-spin system of C ₂ . Journal of Chemical Physics, 2017, 146, 114309.	3.0	11
28	Collision-induced resonances in two-color resonant four-wave mixing spectra. Physical Review A, 2000, 63, .	2.5	10
29	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
30	Polarization- and time-resolved DFWM spectroscopy of the A ² Σ ⁺ X ² Σ ⁺ (0,0) band transitions of nascent OH radicals generated by 266 nm laser photolysis of H ₂ O ₂ . Journal of Raman Spectroscopy, 2013, 44, 1349-1355.	2.5	9
31	Unraveling the electronic structure of transition metal dimers using resonant four-wave mixing. Journal of Raman Spectroscopy, 2016, 47, 425-431.	2.5	9
32	New experimental and theoretical assessment of the dissociation energy of C ₂ . Molecular Physics, 2019, 117, 1645-1652.	1.7	9
33	Title is missing!. Flow, Turbulence and Combustion, 2000, 64, 183-196.	2.6	7
34	Rotationally Resolved Ground State Vibrational Levels of HC ₂ S Studied by Two-Color Resonant Four-Wave Mixing. Journal of Physical Chemistry A, 2010, 114, 3329-3333.	2.5	6
35	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
36	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

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37	Rovibrational Characterization of High-Lying Electronic States of Cu ₂ by Double-Resonant Nonlinear Spectroscopy. Journal of Physical Chemistry A, 2017, 121, 8448-8452.	2.5	5
38	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
39	Spectroscopic disentanglement of the quantum states of highly excited Cu ₂ . Nature Communications, 2019, 10, 3270.	12.8	5
40	Line-space description of resonant four-wave mixing: Theory for isotropic molecular states. Journal of Chemical Physics, 2014, 140, 194302.	3.0	4
41	Observation of a gerade symmetry state of Cu ₂ using two-color resonant four-wave mixing. Journal of Raman Spectroscopy, 2020, 51, 1970-1976.	2.5	4
42	Accurate ground state potential of Cu ₂ up to the dissociation limit by perturbation assisted double-resonant four-wave mixing. Journal of Chemical Physics, 2020, 153, 244305.	3.0	4
43	New developments in non-linear optical spectroscopy. Journal of Raman Spectroscopy, 2006, 37, 630-632.	2.5	3
44	The $\tilde{A}^2\Sigma^+_{g/2}$ $\tilde{X}^2\Sigma^+_{g/2}$ electronic transition of HC ₄ S isotopologues. Molecular Physics, 2008, 106, 2709-2715.	1.7	3
45	Dissection of dispersed off-resonant femtosecond degenerate four-wave mixing of O ₂ . Journal of Raman Spectroscopy, 2011, 42, 1848-1853.	2.5	3
46	ECONOS in the epoch of CARS renaissance. Journal of Raman Spectroscopy, 2007, 38, 960-962.	2.5	2
47	Rotationally resolved spectroscopy and dynamics of the 3p ¹ D ₂ Rydberg state of formaldehyde. Physical Chemistry Chemical Physics, 2010, 12, 15592.	2.8	2
48	Determination of rotational constants in a molecule by femtosecond four-wave mixing. Journal of Raman Spectroscopy, 2000, 31, 71-76.	2.5	2
49	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
50	New developments in nonlinear spectroscopy: ECONOS meeting in St. Petersburg. Journal of Raman Spectroscopy, 2008, 39, 692-693.	2.5	1
51	Development and applications of nonlinear optical spectroscopy – 9th ECONOS / 29th ECW meeting in Bremen, Germany. Journal of Raman Spectroscopy, 2011, 42, 1825-1827.	2.5	1
52	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
53	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
54	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

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55	The ion-pair character of the B \langle 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:msup><mml:mrow><mml:mo>+</mml:mo></mml:mrow></math> state of CuAg. Journal of Molecular Spectroscopy, 2020, 372, 111326.		
56	Determination of rotational constants in a molecule by femtosecond four-wave mixing. , 2000, 31, 71.		1
57	Resonant four-wave mixing spectra: A fresh look at photodissociation dynamics. Journal of Physics: Conference Series, 2014, 548, 012016.	0.4	0
58	Helicity-induced shapes of resonant four-wave mixing responses from photofragments. Journal of Physics: Conference Series, 2017, 810, 012019.	0.4	0
59	Rovibrational investigation of a new high-lying O_u+ state of Cu_{2} by using two-color resonant four-wave-mixing spectroscopy. Journal of Chemical Physics, 2022, 156, 184305.	3.0	0