Stefano Oss

List of Publications by Year
in descending order

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52	1,230	394421	361022
papers	citations	19	35
		h-index	g-index

52	52	52	371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model ofncoupled anharmonic oscillators and applications to octahedral molecules. Physical Review Letters, 1991, 66, 2976-2979.	7.8	159
2	Algebraic approach to molecular spectra: Twoâ€dimensional problems. Journal of Chemical Physics, 1996, 104, 6956-6963.	3.0	124
3	Overtone frequencies and intensities of bent XY molecules in the vibron model. Journal of Molecular Spectroscopy, 1990, 142, 85-107.	1.2	89
4	Linear four-atomic molecules in the vibron model. Journal of Molecular Spectroscopy, 1991, 149, 132-151.	1.2	79
5	Vibrational spectra of linear triatomic molecules in the vibron model. Journal of Molecular Spectroscopy, 1991, 146, 56-78.	1.2	78
6	Vibrational spectroscopy and intramolecular relaxation of benzene. Journal of Chemical Physics, 1993, 99, 7337-7349.	3.0	74
7	Algebraic model of bending vibrations of complex molecules. Chemical Physics Letters, 1993, 205, 285-289.	2.6	65
8	Vibrational modesoof polyatomic molecules in the vibron model. Journal of Molecular Spectroscopy, 1992, 153, 225-239.	1.2	61
9	Absolute total cross sections for electron-CO2scattering at energies form 0.5 to 3000 eV. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 5817-5825.	1.6	48
10	Absolute total cross section measurements for intermediate energy electron scattering: III. Ne and Ar. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 5157-5164.	1.6	44
11	Total absolute cross sections for electron scattering on H2O at intermediate energies. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L133-L136.	1.6	44
12	Stretching vibrations of benzene in the algebraic model. Chemical Physics Letters, 1991, 187, 500-505.	2.6	44
13	What are we looking at when we say magenta? Quantitative measurements of RGB and CMYK colours with a homemade spectrophotometer. European Journal of Physics, 2016, 37, 065301.	0.6	34
14	Quasi-linear four-atomic molecules in the vibron model. Journal of Molecular Spectroscopy, 1992, 156, 190-200.	1.2	27
15	Rotation-vibration interaction and Fermi resonances of HCCF in the vibron model. Molecular Physics, 1993, 78, 561-575.	1.7	26
16	Vibrational analysis of monofluoroacetylene (HCCF) in the vibron model. Molecular Physics, 1993, 78, 545-559.	1.7	24
17	Electron-molecule absolute total cross sections: O2from 0.2 to 100 eV. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 3353-3360.	1.6	23
18	The 3 â†•0 CH stretch overtone of benzene. Chemical Physics Letters, 1993, 207, 167-172.	2.6	20

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19	Vibrational spectroscopy of CH/NH stretches in pyrrole: An algebraic approach. Journal of Chemical Physics, 1997, 106, 5379-5392.	3.0	19
20	The Beer Lambert law measurement made easy. Physics Education, 2018, 53, 035033.	0.5	16
21	Fast timing with hamamatsu R2083Q photomultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 275, 194-196.	1.6	15
22	Deep disorder in neon-implanted copper single crystals detected by variable-energy positrons. Journal of Physics Condensed Matter, 1989, 1, 5411-5419.	1.8	13
23	Inhibition of positron trapping by charge transfer in ceramic superconductors. Physica C: Superconductivity and Its Applications, 1988, 156, 65-68.	1.2	12
24	Cylinder radioactive source for slowâ€positron beams. Review of Scientific Instruments, 1985, 56, 1531-1533.	1.3	9
25	Positron-electron annihilation in the proximity of a second electron in a dense medium. Physical Review B, 1991, 43, 12715-12722.	3.2	9
26	D2O absolute total electron-scattering cross sections. Chemical Physics Letters, 1991, 179, 114-118.	2.6	8
27	Microscopic and probabilistic approach to thermal steady state based on a dice and coin toy model. European Journal of Physics, 2017, 38, 045102.	0.6	7
28	Multiple object, three-dimensional motion tracking using the Xbox Kinect sensor. European Journal of Physics, 2017, 38, 065003.	0.6	6
29	Infrared imaging of a non-stationary thermal conductive process and observation of its Greenâ€™s kernel. European Journal of Physics, 2020, 41, 015102.	0.6	6
30	Effect of motional magnetic fields on positroniumlike systems in polar media. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1985, 42, 45-48.	0.4	5
31	The vibron model and long molecular chains: Algebraic polyethylene and its first CH stretching overtone. Journal of Molecular Structure, 2006, 780-781, 87-97.	3.6	5
32	Infrared imaging of the cooling fin equation. European Journal of Physics, 2020, 41, 055102.	0.6	5
33	Fermi resonances in the one-dimensional algebraic model. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1995, 35, 179-190.	1.0	4
34	Nonexistence of a positron-hydrogen-atom bound state. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1983, 36, 231-235.	0.4	3
35	Infrared visualization of lumped and non-lumped thermal transient processes in an introductory laboratory. European Journal of Physics, 2021, 42, 015101.	0.6	3
36	A simple model of thermal conduction in human skin: temperature perception and thermal effusivity. European Journal of Physics, 2022, 43, 035101.	0.6	3

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37	A simple approach to the correlation of rotovibrational states in four-atomic molecules. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1994, 32, 85-91.	1.0	2
38	High precision pressure measurement with a funnel. European Journal of Physics, 2008, 29, 1235-1241.	0.6	2
39	A medieval clock made out of simple materials. European Journal of Physics, 2008, 29, 799-814.	0.6	2
40	Looking at phosphorescence with a smartphone, explaining phosphorescence with a dice toy model. Physics Education, 2018, 53, 065016.	0.5	2
41	Vintage thermology and modern-day infrared imaging. Physics Education, 2021, 56, 025025.	0.5	2
42	Resonances in positron-hydrogen-atom scattering. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1984, 41, 523-527.	0.4	1
43	VIBR3AT: a computer program for triatomic molecular spectroscopy in an algebraic approach. Computer Physics Communications, 1993, 74, 164-186.	7.5	1
44	Vibrational modes of CH bonds in n-paraffin molecular chains: an algebraic description. PhysChemComm, 2002, 5, 66.	0.8	1
45	Algebraic description of n-alkane molecules: first overtone of CH stretching modes. PhysChemComm, 2003, 6, 42.	0.8	1
46	Physics Of Flight At School: The Safe Route. , 2010, , .		1
47	Fast quasi-adiabatic gas cooling: an experiment revisited. European Journal of Physics, 2012, 33, 1155-1165.	0.6	1
48	The Hubble party balloon and the expanding universe. European Journal of Physics, 2016, 37, 055701.	0.6	1
49	Commercial virtual reality headsets for developing augmented reality setups to track three-dimensional motion in real time. Physics Education, 2021, 56, 025016.	0.5	1
50	Making jets of air visible in the infrared. Physics Education, 2022, 57, 043001.	0.5	1
51	Quantum representations of dynamical systems: new bending modes of acetylene. PhysChemComm, 2000, 3, 5.	0.8	0
52	Light interference from a soap film: a revisited quasi-monochromatic experiment. Physics Education, 2019, 54, 015018.	0.5	0