

Ori Cheshnovsky

List of Publications by Year in descending order

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69
papers

3,000
citations

186265

28
h-index

161849

54
g-index

69
all docs

69
docs citations

69
times ranked

2623
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of tissue biopsies by Raman spectroscopy guided by quantitative phase imaging and its application to bladder cancer. <i>Journal of Biophotonics</i> , 2022, 15, e202200009.	2.3	2
2	Vortex beams of atoms and molecules. <i>Science</i> , 2021, 373, 1105-1109.	12.6	37
3	Time-resolved circularly polarized luminescence of Eu ³⁺ -based systems. <i>Chirality</i> , 2021, 33, 124-133.	2.6	9
4	Single-, double-, and triple-slit diffraction of molecular matter waves. <i>American Journal of Physics</i> , 2021, 89, 1132-1138.	0.7	2
5	Determination of Handedness in a Single Chiral Nanocrystal <i>via</i> Circularly Polarized Luminescence. <i>ACS Nano</i> , 2019, 13, 601-608.	14.6	20
6	Circular Dichroism of Single Particles. <i>ACS Photonics</i> , 2018, 5, 2151-2159.	6.6	45
7	Matter-wave diffraction approaching limits predicted by Feynman path integrals for multipath interference. <i>Physical Review A</i> , 2018, 97, .	2.5	16
8	Pure sinusoidal photo-modulation using an acousto-optic modulator. <i>Review of Scientific Instruments</i> , 2018, 89, 123102.	1.3	5
9	PySight: plug and play photon counting for fast continuous volumetric intravital microscopy. <i>Optica</i> , 2018, 5, 1104.	9.3	14
10	In search of multipath interference using large molecules. <i>Science Advances</i> , 2017, 3, e1602478.	10.3	26
11	On the role of the electric dipole moment in the diffraction of biomolecules at nanomechanical gratings. <i>Fortschritte Der Physik</i> , 2017, 65, 1600025.	4.4	7
12	Electrically controlled quantum reflection. <i>Physical Review A</i> , 2017, 95, .	2.5	8
13	Probing the Dynamic Fluctuations of Bismuth Nanoparticles by Thermovoltage Measurements. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18925-18930.	3.1	0
14	A Green's function approach to modeling molecular diffraction in the limit of ultra-thin gratings. <i>Annalen Der Physik</i> , 2015, 527, 580-591.	2.4	20
15	Super-Resolution in Label-Free Photomodulated Reflectivity. <i>Nano Letters</i> , 2015, 15, 1362-1367.	9.1	37
16	Toward Two-Dimensional All-Carbon Heterostructures via Ion Beam Patterning of Single-Layer Graphene. <i>Nano Letters</i> , 2015, 15, 5944-5949.	9.1	85
17	Super resolution methodology based on temperature dependent Raman scattering. <i>Optics Express</i> , 2015, 23, 17929.	3.4	7
18	An atomically thin matter-wave beamsplitter. <i>Nature Nanotechnology</i> , 2015, 10, 845-848.	31.5	41

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19	Cavity-Assisted Manipulation of Freely Rotating Silicon Nanorods in High Vacuum. Nano Letters, 2015, 15, 5604-5608.	9.1	62
20	Semiconductor Nanorod-Carbon Nanotube Biomimetic Films for Wire-Free Photostimulation of Blind Retinas. Nano Letters, 2014, 14, 6685-6692.	9.1	100
21	Molecular Control of Structural Dynamics and Conductance Switching in Bismuth Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 22218-22223.	3.1	8
22	Large Anisotropic Conductance and Band Gap Fluctuations in Nearly Round-Shape Bismuth Nanoparticles. Nano Letters, 2012, 12, 1087-1091.	9.1	16
23	Real-time single-molecule imaging of quantum interference. Nature Nanotechnology, 2012, 7, 297-300.	31.5	115
24	Dielectron Attachment and Hydrogen Evolution Reaction in Water Clusters. Journal of Physical Chemistry A, 2011, 115, 7378-7391.	2.5	37
25	Detection of Microcalcification in Tissue by Raman Spectroscopy. Cardiovascular Engineering and Technology, 2011, 2, 228-233.	1.6	6
26	Auger recombination and excited state relaxation dynamics in Hg ⁿ⁺ (n=9-20) anion clusters. Journal of Chemical Physics, 2009, 130, 231103.	3.0	3
27	Critical Size for Intracuster Proton Transfer from Water to an Anion. Angewandte Chemie - International Edition, 2008, 47, 6272-6274.	13.8	14
28	Auger recombination dynamics in clusters. Chemical Physics, 2008, 350, 69-74.	1.9	6
29	Detection of heating in current-carrying molecular junctions by Raman scattering. Nature Nanotechnology, 2008, 3, 727-732.	31.5	234
30	Electron Transfer and Charge Separation in Clusters. Advances in Chemical Physics, 2007, , 265-302.	0.3	9
31	Two Photon Detachment of d Electrons and Auger Emission in Photoelectron Studies of Hg ⁿ⁺ -Clusters. Journal of Physical Chemistry C, 2007, 111, 17725-17729.	3.1	4
32	A Complete Scheme for Creating Predefined Networks of Individual Carbon Nanotubes. Nano Letters, 2007, 7, 2666-2671.	9.1	24
33	METAL TO INSULATOR TRANSITIONS IN CLUSTERS. Annual Review of Physical Chemistry, 2005, 56, 549-580.	10.8	155
34	A new action photoelectron spectroscopy for anions. Journal of Chemical Physics, 2005, 122, 141101.	3.0	1
35	Transition from a Bloch-Wilson to a free-electron density of states in Zn ⁿ⁺ clusters. Journal of Chemical Physics, 2005, 123, 221102.	3.0	12
36	Electronic Relaxation Dynamics of Water Cluster Anions. Journal of the American Chemical Society, 2005, 127, 15283-15295.	13.7	111

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37	Time-resolved relaxation dynamics of Hg _n ⁺ (11 ⁺ 1/2 ⁺ 16, n=18) clusters following intraband excitation at 1.5 eV. <i>Journal of Chemical Physics</i> , 2004, 121, 10015-10025.	3.0	42
38	Foreword by the Guest Editors: Perspectives in the Chemical Sciences (Honoring Prof. Joshua Jortner) PART B. <i>Israel Journal of Chemistry</i> , 2004, 44, NA-NA.	2.3	0
39	Foreword by the Guest Editors: Perspectives in the Chemical Sciences (Honoring Prof. Joshua Jortner) PART A. <i>Israel Journal of Chemistry</i> , 2003, 43, NA-NA.	2.3	0
40	Resolution enhancement in the magnetic bottle photoelectron spectrometer by impulse electron deceleration. <i>Review of Scientific Instruments</i> , 2001, 72, 2543-2549.	1.3	10
41	Photodetachment studies of extended excited states in I ⁺ Xen clusters (n=1-54). <i>Journal of Chemical Physics</i> , 1999, 110, 6288-6297.	3.0	36
42	Three attempts and one success in addressing the bandgap closure in mercury clusters. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 1427-1436.	0.6	6
43	Photoelectron spectroscopy of the 'missing' hydrated electron clusters (H ₂ O) _n ⁻ , n=3, 5, 8 and 9: Isomers and continuity with the dominant clusters n=6, 7 and 11. <i>Chemical Physics Letters</i> , 1998, 297, 90-96.	2.6	142
44	Direct Observation of Band-Gap Closure in Mercury Clusters. <i>Physical Review Letters</i> , 1998, 81, 3836-3839.	7.8	121
45	A combined mass gate-energy discriminator. <i>Review of Scientific Instruments</i> , 1997, 68, 4625-4626.	1.3	3
46	Bound Delocalized Excited States in I ⁺ Xen Clusters. <i>Physical Review Letters</i> , 1997, 79, 3391-3394.	7.8	32
47	The solvation of Cl ⁺ , Br ⁺ , and I ⁺ in acetonitrile clusters: Photoelectron spectroscopy and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 1996, 105, 2675-2685.	3.0	103
48	The decay of triplet pyrazine and pyrazine-D ₄ in supersonic jets: Isotope effects. <i>Journal of Chemical Physics</i> , 1994, 101, 3649-3655.	3.0	7
49	Photoelectron spectroscopy of Cl ⁺ , Br ⁺ , and I ⁺ solvated in water clusters. <i>Journal of Chemical Physics</i> , 1994, 101, 9344-9353.	3.0	311
50	The solvation of iodine anions in water clusters: PES studies. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 98-100.	1.0	34
51	Charge transfer excitations in the photoelectron spectrum of Cl ⁺ NH ₃ : Experiment and calculation. <i>Journal of Chemical Physics</i> , 1993, 99, 6201-6204.	3.0	28
52	The decay of triplet pyrazine and methylpyrazine in supersonic jets. Substitution effects. <i>Journal of Chemical Physics</i> , 1992, 96, 8095-8103.	3.0	17
53	Photoelectron spectroscopy of iodine anion solvated in water clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 9416-9419.	3.0	159
54	Triplet State Interrogation in Supersonic Beams by Surface Electron Ejection. <i>Israel Journal of Chemistry</i> , 1990, 30, 13-22.	2.3	5

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55	The decay of triplet pyrazine in supersonic jets. <i>Journal of Chemical Physics</i> , 1989, 91, 7331-7339.	3.0	36
56	The branching of nonradiative processes in isoquinoline. <i>Journal of Chemical Physics</i> , 1989, 91, 3532-3538.	3.0	8
57	Proton transfer reactions in neutral gas-phase clusters: 1-Naphthol with H ₂ O, D ₂ O, CH ₃ OH, NH ₃ and piperidine. <i>Chemical Physics Letters</i> , 1988, 144, 317-323.	2.6	102
58	Triplet selectivity in surface ejection of electrons by laser-excited metastables of aniline. <i>Chemical Physics Letters</i> , 1988, 146, 216-220.	2.6	8
59	Proton transfer in neutral gas-phase clusters: 1-Naphthol...(NH ₃) _n . <i>Journal of Chemical Physics</i> , 1988, 88, 4127-4138.	3.0	150
60	Long radiative lifetimes of SO ₂ in a collision-free supersonic molecular beam. <i>Chemical Physics Letters</i> , 1986, 130, 487-492.	2.6	9
61	Surface ejection of electrons by laser-excited metastables of anthracene derivatives. <i>Chemical Physics Letters</i> , 1986, 130, 53-58.	2.6	14
62	Excited-state proton transfer in neutral microsolvated clusters: 1-Naphthol...(NH ₃) _n . <i>Chemical Physics Letters</i> , 1985, 121, 1-8.	2.6	77
63	Optical study of the metal-insulator transition in the mercury-xenon system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1979, 71, 255-258.	2.1	9
64	Collisional quenching of resonance states of rare gases. <i>Chemical Physics Letters</i> , 1974, 29, 310-313.	2.6	8
65	Comments on heteronuclear electronically excited rare gas diatomic molecules. <i>Chemical Physics Letters</i> , 1973, 22, 23-25.	2.6	24
66	Emission spectra of xenon impurity states in solid and liquid krypton. <i>Journal of Chemical Physics</i> , 1973, 59, 5554-5561.	3.0	23
67	Electronic energy transfer in rare gas mixtures. <i>Journal of Chemical Physics</i> , 1973, 59, 3301-3307.	3.0	59
68	Emission Spectra of Deep Impurity States in Solid and Liquid Rare Gas Alloys. <i>Journal of Chemical Physics</i> , 1972, 57, 4628-4632.	3.0	62
69	Temperature dependence of rare gas molecular emission in the vacuum ultraviolet. <i>Chemical Physics Letters</i> , 1972, 15, 475-479.	2.6	57