

Vinod Kumarappan

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,451
citations

304743

22
h-index

345221

36
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41
all docs

41
docs citations

41
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	Alignment dependence of photoelectron angular distributions in the few-photon ionization of molecules by ultraviolet pulses. <i>Physical Review A</i> , 2022, 105, .	2.5	3
2	Strong-field ionization of the triplet ground state of O ₂ . <i>Physical Review A</i> , 2021, 104, .	2.5	4
3	Angle-dependent strong-field ionization and fragmentation of carbon dioxide measured using rotational wave packets. <i>Physical Review A</i> , 2020, 102, .	2.5	16
4	Strong-field control of H ₃ ⁺ production from methanol dications: Selecting between local and extended formation mechanisms. <i>Journal of Chemical Physics</i> , 2020, 152, 054302.	3.0	17
5	$\langle N \rangle$ HOMO-1 orbital cross section revealed through high-order-harmonic generation. <i>Physical Review A</i> , 2017, 95, .	2.5	15
6	Strong-field-induced wave packet dynamics in carbon dioxide molecule. <i>Faraday Discussions</i> , 2016, 194, 463-478.	3.2	15
7	Identification of absolute geometries of cis and trans molecular isomers by Coulomb Explosion Imaging. <i>Scientific Reports</i> , 2016, 6, 38202.	3.3	32
8	Alignment-assisted field-free orientation of rotationally cold CO molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	10
9	Multipulse Three-Dimensional Alignment of Asymmetric Top Molecules. <i>Physical Review Letters</i> , 2014, 112, 173602.	7.8	47
10	Reconstruction of three-dimensional molecular structure from diffraction of laser-aligned molecules. <i>Structural Dynamics</i> , 2014, 1, 044101.	2.3	28
11	Measuring the angle-dependent photoionization cross section of nitrogen using high-harmonic generation. <i>Physical Review A</i> , 2013, 88, .	2.5	35
12	Measurement of field-free alignment of jet-cooled molecules by nonresonant femtosecond degenerate four-wave mixing. <i>Physical Review A</i> , 2012, 85, .	2.5	14
13	Metric for three-dimensional alignment of molecules. <i>Physical Review A</i> , 2012, 85, .	2.5	18
14	Controlling the rotation of asymmetric top molecules by the combination of a long and a short laser pulse. <i>Physical Review A</i> , 2009, 79, .	2.5	38
15	Manipulating the Torsion of Molecules by Strong Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 073007.	7.8	102
16	A combined experimental and theoretical study on realizing and using laser controlled torsion of molecules. <i>Journal of Chemical Physics</i> , 2009, 130, 234310.	3.0	55
17	Multiphoton Electron Angular Distributions from Laser-Aligned $\langle CS \rangle^2$ Molecules. <i>Physical Review Letters</i> , 2008, 100, 093006.	7.8	92
18	Control of alignment dynamics of asymmetric top molecules. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
19	Aligning molecules with long or short laser pulses. <i>Physica Scripta</i> , 2007, 76, C63-C68.	2.5	41
20	Control of rotational wave-packet dynamics in asymmetric top molecules. <i>Physical Review A</i> , 2007, 75, .	2.5	40
21	3D Alignment by Holding and Spinning Molecules. , 2007, , .		0
22	Holding and Spinning Molecules in Space. <i>Physical Review Letters</i> , 2007, 99, 143602.	7.8	77
23	Asymmetric explosion of laser-irradiated hydrogen clusters. , 2007, , .		0
24	Clustered gases as a medium for efficient plasma waveguide generation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 647-661.	3.4	19
25	<title>High-resolution x-ray spectromicroscopy observations of 1 MeV ions under far from relativistic laser beam channeling in N$\langle inf \rangle 2$</math>O clusters</title>. , 2006, , .		0
26	Role of rotational temperature in adiabatic molecular alignment. <i>Journal of Chemical Physics</i> , 2006, 125, 194309.	3.0	72
27	Guiding of Intense Laser Pulses in Plasma Waveguides Produced from Efficient, Femtosecond End-Pumped Heating of Clustered Gases. <i>Physical Review Letters</i> , 2005, 94, 205004.	7.8	48
28	Plasma waveguides efficiently generated by Bessel beams in elongated cluster gas jets. <i>Physical Review E</i> , 2005, 72, 036411.	2.1	25
29	Spectral redshifts in the intense laser-cluster interaction. <i>Physical Review A</i> , 2005, 71, .	2.5	24
30	Gases of exploding laser-heated cluster nanoplasmas as a nonlinear optical medium. <i>Physics of Plasmas</i> , 2004, 11, 2882-2889.	1.9	15
31	Anisotropic "charge-flipping" acceleration of highly charged ions from clusters in strong optical fields. <i>Physical Review A</i> , 2004, 69, .	2.5	58
32	Measurement of the average size and density of clusters in a gas jet. <i>Applied Physics Letters</i> , 2003, 83, 3210-3212.	3.3	83
33	Asymmetric emission of high-energy electrons in the two-dimensional hydrodynamic expansion of large xenon clusters irradiated by intense laser fields. <i>Physical Review A</i> , 2003, 67, .	2.5	80
34	Explosions of water clusters in intense laser fields. <i>Physical Review A</i> , 2003, 67, .	2.5	36
35	Two-dimensional effects in the hydrodynamic expansion of xenon clusters under intense laser irradiation. <i>Physical Review A</i> , 2002, 66, .	2.5	82
36	Photoion imaging spectrometry in intense laser fields. <i>International Journal of Mass Spectrometry</i> , 2002, 215, 163-173.	1.5	2

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37	Asymmetric High-Energy Ion Emission from Argon Clusters in Intense Laser Fields. Physical Review Letters, 2001, 87, 085005.	7.8	136
38	Effect of laser polarization on x-ray emission from Ar_n ($n=200 \hat{=} 104$) clusters in intense laser fields. Physical Review A, 2001, 63, .	2.5	47
39	Perturbation of water by intense light-induced fields of picosecond duration and ion-induced fields of attosecond duration. Physical Review A, 1999, 59, 3105-3108.	2.5	6
40	Dissociative ionization of gas-phase chloromethanes by intense fields of picosecond and attosecond duration. Physical Review A, 1998, 58, 3849-3855.	2.5	19