

Andrew J Alexander

List of Publications by Year in descending order

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70
papers

3,183
citations

186265

28
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155660

55
g-index

71
all docs

71
docs citations

71
times ranked

3045
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical shock-induced nucleation in solution: is cavitation necessary?. Journal of Crystal Growth, 2022, , 126786.	1.5	0
2	Using the near field optical trapping effect of a dielectric metasurface to improve SERS enhancement for virus detection. Scientific Reports, 2021, 11, 6873.	3.3	14
3	Laser-induced nucleation promotes crystal growth of anhydrous sodium bromide. CrystEngComm, 2021, 23, 8451-8461.	2.6	4
4	Pulsed Laser-Induced Nucleation of Sodium Chlorate at High Energy Densities. Crystal Growth and Design, 2019, 19, 7106-7111.	3.0	9
5	Non-photochemical laser-induced nucleation. Journal of Chemical Physics, 2019, 150, 040901.	3.0	44
6	Probing the dynamics of crystal nucleation via measurements of emission lifetimes in crystalloluminescence of sodium chloride. Journal of Crystal Growth, 2018, 501, 22-26.	1.5	2
7	Polarization independence of laser-induced nucleation in supersaturated aqueous urea solutions. Physical Chemistry Chemical Physics, 2017, 19, 3464-3467.	2.8	15
8	Supersaturation dependence of glycine polymorphism using laser-induced nucleation, sonocrystallization and nucleation by mechanical shock. Physical Chemistry Chemical Physics, 2017, 19, 19386-19392.	2.8	36
9	Effects of nanoparticle heating on the structure of a concentrated aqueous salt solution. Journal of Chemical Physics, 2017, 147, 214506.	3.0	6
10	10.1063/1.5002002.1., 2017, , .		0
11	Role of Impurity Nanoparticles in Laser-Induced Nucleation of Ammonium Chloride. Crystal Growth and Design, 2016, 16, 6790-6796.	3.0	19
12	Making light work of crystal growth. Nature Photonics, 2016, 10, 694-695.	31.4	3
13	Laser-induced nucleation of carbon dioxide bubbles. Journal of Chemical Physics, 2015, 142, 144501.	3.0	28
14	Nonphotochemical Laser-Induced Crystal Nucleation by an Evanescent Wave. Crystal Growth and Design, 2015, 15, 4600-4605.	3.0	14
15	Structure and Dynamics of Potassium Chloride in Aqueous Solution. Journal of Physical Chemistry B, 2014, 118, 9404-9413.	2.6	15
16	Second-harmonic scattering in aqueous urea solutions: evidence for solute clusters?. Faraday Discussions, 2013, 167, 441.	3.2	11
17	Beyond classical theories. , 2013, , .		2
18	Deep ultraviolet and visible crystalloluminescence of sodium chloride. Journal of Chemical Physics, 2012, 136, 064512.	3.0	11

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19	Non-photochemical laser-induced nucleation of supercooled glacial acetic acid. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 90-93.	2.8	30
20	Nonphotochemical Laser-Induced Nucleation of Potassium Halides: Effects of Wavelength and Temperature. <i>Crystal Growth and Design</i> , 2012, 12, 4554-4561.	3.0	36
21	Interfacial Ion-Transfer Mechanism for the Intense Luminescence Observed When Opening Self-Seal Envelopes. <i>Langmuir</i> , 2012, 28, 13294-13299.	3.5	18
22	Chiral hide-and-seek: Retention of enantiomorphism in laser-induced nucleation of molten sodium chlorate. <i>Journal of Chemical Physics</i> , 2011, 135, 114508.	3.0	27
23	Enantiomorphic symmetry breaking in crystallization of molten sodium chlorate. <i>Chemical Communications</i> , 2010, 46, 7634.	4.1	10
24	Photofragment angular momentum distributions in the molecular frame. II. Single state dissociation, multiple state interference, and nonaxial recoil in photodissociation of polyatomic molecules. <i>Journal of Chemical Physics</i> , 2010, 132, 224310.	3.0	28
25	(2+1) laser-induced fluorescence of spin-polarized hydrogen atoms. <i>Journal of Chemical Physics</i> , 2010, 133, 174308.	3.0	3
26	Nanosecond pulse width dependence of nonphotochemical laser-induced nucleation of potassium chloride. <i>Chemical Physics Letters</i> , 2009, 481, 25-28.	2.6	28
27	Impact of Mo and Ce on growth of single-walled carbon nanotubes by chemical vapour deposition using MgO-supported Fe catalysts. <i>Applied Surface Science</i> , 2009, 255, 7446-7450.	6.1	10
28	Spatial Control of Crystal Nucleation in Agarose Gel. <i>Journal of the American Chemical Society</i> , 2009, 131, 11676-11677.	13.7	80
29	Single Pulse, Single Crystal Laser-Induced Nucleation of Potassium Chloride. <i>Crystal Growth and Design</i> , 2009, 9, 958-963.	3.0	86
30	Time-dependent depolarization of aligned HD molecules. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 142-147.	2.8	17
31	Effects of activation schemes on porous, surface and thermal properties of activated carbons prepared from cotton stalks. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 82, 272-278.	5.5	128
32	Quantitative inhibiting effect of Group III cations on the growth of carbon nanotubes. <i>Carbon</i> , 2008, 46, 818-821.	10.3	28
33	Waves in Guinness. <i>Physics of Fluids</i> , 2008, 20, .	4.0	18
34	Laser detection of spin-polarized hydrogen from HCl and HBr photodissociation: Comparison of H- and halogen-atom polarizations. <i>Journal of Chemical Physics</i> , 2008, 129, 144302.	3.0	28
35	Crystallization of Sodium Chlorate with D-Glucose Co-Solute Is Not Enantioselective. <i>Crystal Growth and Design</i> , 2008, 8, 2630-2632.	3.0	21
36	Nanosecond control and high-density production of spin-polarized hydrogen atoms. <i>Europhysics Letters</i> , 2008, 81, 68002.	2.0	15

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37	Preparation of oriented and aligned H ₂ and HD by stimulated Raman pumping. <i>Journal of Chemical Physics</i> , 2008, 129, 084312.	3.0	20
38	Optical control of ground-state atomic orbital alignment: Cl(³ P) atoms from HCl($\nu=2, J=1$) photodissociation. <i>Journal of Chemical Physics</i> , 2007, 127, 144307.	3.0	15
39	A Model for the Dependence of Carbon Nanotube Length on Acid Oxidation Time. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10792-10798.	3.1	64
40	Carbon Nanotube Structures and Compositions. , 2007, , 7-18.		4
41	Flowing Liquid-Sheet Jet for Cavity Ring-Down Absorption Measurements. <i>Analytical Chemistry</i> , 2006, 78, 5597-5600.	6.5	20
42	Carbon Nanotubes: A Review of Their Properties in Relation to Pulmonary Toxicology and Workplace Safety. <i>Toxicological Sciences</i> , 2006, 92, 5-22.	3.1	1,039
43	Mechanism of carbon nanotube growth from camphor and camphor analogs by chemical vapor deposition. <i>Carbon</i> , 2006, 44, 341-347.	10.3	51
44	Determination of the helicity of oriented photofragments. <i>Journal of Chemical Physics</i> , 2005, 123, 194312.	3.0	16
45	Calculation of adiabatic polarization of atomic photofragments under the influence of long range quadrupole-quadrupole interactions. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3693.	2.8	10
46	Effects of long-range potentials on polarization of chlorine atoms from photodissociation of ICl. <i>Molecular Physics</i> , 2005, 103, 1665-1676.	1.7	17
47	Electronic Properties of n-Type Carbon Nanotubes Prepared by CF ₄ Plasma Fluorination and Amino Functionalization. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22096-22101.	2.6	55
48	Reaction kinetics of nitrate radicals with terpenes in solution studied by cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2004, 393, 138-142.	2.6	22
49	Structure of monolayer dye films studied by Brewster angle cavity ringdown spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1279-1283.	2.8	42
50	Photodissociation of O ₂ via the Herzberg continuum: Measurements of O-atom alignment and orientation. <i>Journal of Chemical Physics</i> , 2003, 118, 10566-10574.	3.0	25
51	Photofragment angular momentum polarization from dissociation of hydrogen peroxide near 355 nm. <i>Journal of Chemical Physics</i> , 2003, 118, 6234-6243.	3.0	44
52	Interference between dissociating states in H ₂ O ₂ and HOCl causes orientation of OH diatomic products. <i>Physical Review A</i> , 2002, 66, .	2.5	15
53	Comparison of near-threshold reactivity of ground-state and spin-orbit excited chlorine atoms with methane. <i>Journal of Chemical Physics</i> , 2001, 115, 179-183.	3.0	36
54	Cl+HD ($\nu=1; \hat{\alpha}, J=1,2$) reaction dynamics: Comparison between theory and experiment. <i>Journal of Chemical Physics</i> , 2000, 112, 670-685.	3.0	66

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55	Oriented chlorine atoms as a probe of the nonadiabatic photodissociation dynamics of molecular chlorine. <i>Journal of Chemical Physics</i> , 2000, 113, 9022-9031.	3.0	57
56	Product rotational angular momentum polarization in the reaction $O(1D_2)+H_2\hat{a}^+OH+H$. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 571-580.	2.8	41
57	Molecular Tennis Flat Smashes and Wicked Cuts. <i>Accounts of Chemical Research</i> , 2000, 33, 199-205.	15.6	43
58	Speed-Dependent Photofragment Orientation in the Photodissociation of OCS at 223 nm. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10144-10148.	2.5	47
59	Measurements of Cl-atom photofragment angular momentum distributions in the photodissociation of Cl_2 and ICl . <i>Journal of Chemical Physics</i> , 1999, 110, 3351-3359.	3.0	75
60	Orientation as a probe of photodissociation dynamics. <i>Faraday Discussions</i> , 1999, 113, 27-36.	3.2	30
61	Chemistry with a sense of direction—the stereodynamics of bimolecular reactions. <i>Chemical Society Reviews</i> , 1998, 27, 405.	38.1	60
62	Photofragment Helicity Caused by Matter-Wave Interference from Multiple Dissociative States. , 1998, 281, 1346-1349.		104
63	Anatomy of an Elementary Chemical Reaction. <i>Journal of Chemical Education</i> , 1998, 75, 1105.	2.3	33
64	State-Resolved Stereodynamics of an Insertion Reaction $O(^1D_2) + H_2(v=0, j) \hat{a}^+ OH(X^2\Sigma^+; \nu=0, N, f) + H$. <i>Israel Journal of Chemistry</i> , 1997, 37, 317-327.	3.3	6
65	$O(1D_2)+H_2\hat{a}^+OH \xrightarrow{294\text{K}} H+H$ The anatomy of a reaction. <i>Faraday Discussions</i> , 1997, 108, 375-386.	3.2	57
66	Stereodynamics of the Reaction $O(1D_2) + H_2(v=0) \hat{a}^+ OH(X^2\Sigma^+; \nu=0, N, f) + H$: State-Resolved Linear and Rotational Angular Momentum Distributions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7544-7557.	2.5	59
67	Classical reaction probabilities, cross sections and rate constants for the $O(1D) + H_2 \hat{a}^+ OH + H$ reaction. <i>Chemical Physics Letters</i> , 1997, 278, 313-324.	2.6	28
68	Product state-resolved stereodynamics: quasiclassical study of the reaction $O(^1D_2) + H_2(v=0, j) \hat{a}^+ OH(X^2\Sigma^+; \nu=0, N, f) + H$. <i>Chemical Physics Letters</i> , 1996, 256, 561-568.	2.6	51
69	Product state resolved stereodynamics.. <i>Chemical Physics</i> , 1996, 207, 215-226.	1.9	37
70	An experimental and quasiclassical study of the product state resolved stereodynamics of the reaction $O(1D_2) + H_2(\bar{l}... = 0) \hat{a}^+ OH(X^2\Sigma^+; \bar{l}... = 0, N, f) + H$. <i>Chemical Physics Letters</i> , 1996, 262, 589-597.	2.6	50