

Alan D Bristow

List of Publications by Year in descending order

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102
papers

6,028
citations

147726

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77
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104
all docs

104
docs citations

104
times ranked

8084
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent contributions to population dynamics in a semiconductor microcavity. <i>Physical Review B</i> , 2022, 105, .	1.1	4
2	Structure-Property-Performance Relationships of Cuprous Oxide Nanostructures for Dielectric Mie Resonance-Enhanced Photocatalysis. <i>ACS Catalysis</i> , 2022, 12, 7975-7985.	5.5	11
3	Hot-carrier dynamics and transport in III-V heterostructures for photovoltaic applications. <i>Journal of Photonics for Energy</i> , 2022, 12, .	0.8	2
4	Nonequilibrium Hot-Carrier Transport in Type-II Multiple Quantum Wells for Solar-Cell Applications. <i>Physical Review Applied</i> , 2022, 18, .	1.5	1
5	Carrier transport and electron-lattice interactions of nonlinear optical crystals CdGeP ₂ , ZnGeP ₂ , and CdSiP ₂ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 769.	0.9	6
6	Identification of a Fe-Dependent Optical Mode in CuAl _{1-x} Fe _x O ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 3577-3583.	1.5	3
7	Hot-carrier dynamics in InAs/AlAsSb multiple-quantum wells. <i>Scientific Reports</i> , 2021, 11, 10483.	1.6	10
8	Analysis of complex multidimensional optical spectra by linear prediction. <i>Optics Express</i> , 2021, 29, 37525.	1.7	2
9	Giant Third-Harmonic Optical Generation from Topological Insulator Heterostructures. <i>Nano Letters</i> , 2021, 21, 8872-8879.	4.5	5
10	Non-equilibrium carrier transport and dynamics of type-II quantum wells. , 2021, , .		0
11	Coherent and incoherent contribution of population dynamics of semiconductor exciton-polaritons. , 2021, , .		0
12	Excitation Dynamics and Dielectric Resonance Energy Transfer in Cu ₂ O Nanocubes. , 2021, , .		0
13	Spin-locked transport in a two-dimensional electron gas. <i>Physical Review B</i> , 2020, 101, .	1.1	5
14	Ultrafast Carrier Dynamics and Photoconductivity of the Chalcopyrite Crystals. , 2020, , .		0
15	Mixing-time evolution of coherent exciton-polariton response due to many-body interactions. , 2020, , .		0
16	Hot-carrier dynamics of type-II InAs/AlAs _{1-x} Sb _x quantum wells. , 2020, , .		1
17	Fast phase cycling in non-collinear optical two-dimensional coherent spectroscopy. <i>Optics Letters</i> , 2020, 45, 5852.	1.7	3
18	Dynamical formation and active control of persistent spin helices in III-V and II-VI quantum wells. <i>Semiconductor Science and Technology</i> , 2019, 34, 093002.	1.0	9

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19	Boosting Photocatalytic Hydrogen Production by Modulating Recombination Modes and Proton Adsorption Energy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5381-5386.	2.1	15
20	Transport of a persistent spin helix drifting transverse to the spin texture. <i>Physical Review B</i> , 2019, 99, .	1.1	11
21	Surface Recombination in Ultra-Fast Carrier Dynamics of Perovskite Oxide La _{0.7} Sr _{0.3} MnO ₃ Thin Films. <i>ACS Nano</i> , 2019, 13, 3457-3465.	7.3	15
22	Terahertz generation by optical rectification in chalcopyrite crystals ZnGeP ₂ , CdGeP ₂ and CdSiP ₂ . <i>Optics Express</i> , 2019, 27, 16958.	1.7	34
23	Hot-carrier cooling dynamics of type-II InAs/AlAl _{1-x} Sbx quantum wells. , 2019, , .		0
24	Phase-resolved multi-dimensional coherent spectroscopy with automated polarization control. , 2019, , .		0
25	Ultra-Fast Phenomena in Perovskite Oxide La _{0.7} Sr _{0.3} MnO ₃ Thin Films. , 2019, , .		0
26	Terahertz generation by optical rectification in chalcopyrite crystals ZnGeP ₂ , CdGeP ₂ and CdSiP ₂ . , 2019, , .		0
27	Application of wavelet analysis on transient reflectivity in ultra-thin films. <i>Optics Express</i> , 2019, 27, 14684.	1.7	3
28	Automated polarization-dependent multidimensional coherent spectroscopy phased using transient absorption. <i>Optics Express</i> , 2019, 27, 31790.	1.7	6
29	Field control of anisotropic spin transport and spin helix dynamics in a modulation-doped GaAs quantum well. <i>Physical Review B</i> , 2018, 97, .	1.1	17
30	Control of hot carrier thermalization in type-II quantum wells: a route to practical hot carrier solar cells. , 2018, , .		0
31	Persistent spin helix manipulation by optical doping of a CdTe quantum well. <i>Physical Review B</i> , 2018, 97, .	1.1	20
32	Enhanced hot electron lifetimes in quantum wells with inhibited phonon coupling. <i>Scientific Reports</i> , 2018, 8, 12473.	1.6	37
33	Coupled exciton-trion spin dynamics in a MoSe ₂ monolayer. <i>2D Materials</i> , 2018, 5, 045024.	2.0	5
34	Stimulated two-photon emission in bulk CdSe. <i>Optics Letters</i> , 2018, 43, 5066.	1.7	4
35	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. <i>ACS Catalysis</i> , 2017, 7, 1742-1748.	5.5	173
36	Optical absorption and disorder in delafossites. <i>Applied Physics Letters</i> , 2017, 111, 012102.	1.5	8

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37	Identification of photocurrents in topological insulators. Optics Express, 2016, 24, 23583.	1.7	21
38	Multidimensional coherent spectroscopy of a semiconductor microcavity. , 2016, , .		0
39	Role of strain on the coherent properties of GaAs excitons and biexcitons. Physical Review B, 2016, 94, .	1.1	18
40	Signatures of four-particle correlations associated with exciton-carrier interactions in coherent spectroscopy on bulk GaAs. Physical Review B, 2016, 94, .	1.1	5
41	Two-dimensional coherent spectroscopy of excitons, biexcitons and exciton-polaritons. , 2016, , .		0
42	Two-Dimensional Coherent Spectroscopy of Strained GaAs. , 2016, , .		0
43	Multidimensional coherent spectroscopy of a semiconductor microcavity. Physical Review B, 2015, 91, .	1.1	23
44	Above and below band edge light recovery with plasmonics. Proceedings of SPIE, 2015, , .	0.8	2
45	Inverting Transient Absorption Data to Determine Transfer Rates in Quantum Dot@TiO ₂ Heterostructures. Journal of Physical Chemistry C, 2015, 119, 6337-6343.	1.5	24
46	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO ₂ Core@Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16239-16244.	1.5	219
47	Theoretical maximum efficiency of solar energy conversion in plasmonic metal@semiconductor heterojunctions. Physical Chemistry Chemical Physics, 2015, 17, 30013-30022.	1.3	58
48	Investigation of band gap narrowing in nitrogen-doped La ₂ Ti ₂ O ₇ with transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 31039-31043.	1.3	15
49	Plasmon-induced resonance energy transfer for solar energy conversion. Nature Photonics, 2015, 9, 601-607.	15.6	587
50	Preparation, characterization, and electrical properties of epitaxial NbO ₂ thin film lateral devices. Journal Physics D: Applied Physics, 2015, 48, 335308.	1.3	38
51	Coherent control of injection currents in high-quality films of Bi ₂ Se ₃ . Applied Physics Letters, 2015, 106, .	1.5	26
52	Optical three-dimensional coherent spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
53	Photoluminescence spectroscopy of YVO ₄ :Eu ³⁺ nanoparticles with aromatic linker molecules: A precursor to biomedical functionalization. Journal of Applied Physics, 2014, 115, 163107.	1.1	13
54	Solar Hydrogen Generation by a CdS-Au-TiO ₂ Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. Journal of the American Chemical Society, 2014, 136, 8438-8449.	6.6	533

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55	Ag@Cu ₂ O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. ACS Catalysis, 2013, 3, 47-51.	5.5	471
56	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. ACS Catalysis, 2013, 3, 746-751.	5.5	226
57	Unraveling quantum pathways using optical 3D Fourier-transform spectroscopy. Nature Communications, 2013, 4, 1390.	5.8	88
58	Ultrafast carrier dynamics in thin-films of the topological insulator Bi ₂ Se ₃ . Applied Physics Letters, 2013, 103, .	1.5	99
59	Coherent coupling between exciton resonances governed by the disorder potential. Physical Review B, 2013, 88, .	1.1	8
60	Terahertz emission from ZnGeP ₂ : phase-matching, intensity, and length scalability. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2882.	0.9	16
61	Optical Multidimensional Spectroscopy of Atomic Vapor. EPL Web of Conferences, 2013, 41, 02010.	0.1	1
62	Terahertz generation by optical rectification in uniaxial birefringent crystals. Optics Express, 2012, 20, 16968.	1.7	21
63	Broadband terahertz pulse emission from ZnGeP ₂ . Optics Letters, 2012, 37, 788.	1.7	31
64	Two-Dimensional Double-Quantum Spectra Reveal Collective Resonances in an Atomic Vapor. Physical Review Letters, 2012, 108, 193201.	2.9	97
65	Revealing exciton dephasing and transport dynamics in semiconductor quantum well - quantum dot systems using optical 2D Fourier transform spectroscopy. , 2012, , .		1
66	Photocatalytic Activity Enhanced by Plasmonic Resonant Energy Transfer from Metal to Semiconductor. Journal of the American Chemical Society, 2012, 134, 15033-15041.	6.6	1,052
67	Optical 2-D Fourier Transform Spectroscopy of Excitons in Semiconductor Nanostructures. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 318-328.	1.9	40
68	Exciton-exciton and exciton-phonon interactions in an interfacial GaAs quantum dot ensemble. Physical Review B, 2011, 83, .	1.1	55
69	Separating Homogeneous and Inhomogeneous Line Widths of Heavy- and Light-Hole Excitons in Weakly Disordered Semiconductor Quantum Wells. Journal of Physical Chemistry B, 2011, 115, 5365-5371.	1.2	36
70	Spectral broadening and population relaxation in a GaAs interfacial quantum dot ensemble and quantum well nanostructure. Physica Status Solidi (B): Basic Research, 2011, 248, 829-832.	0.7	2
71	$x \times \text{Ga}$	1.1	34
72	Advances in optical two-dimensional spectroscopy applied to the study of semiconductor and atomic systems. Proceedings of SPIE, 2010, , .	0.8	0

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73	Two-dimensional Fourier-transform spectroscopy of potassium vapor. <i>Physical Review A</i> , 2010, 82, .	1.0	47
74	Two-Quantum Many-Body Coherences in Two-Dimensional Fourier-Transform Spectra of Exciton Resonances in Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2010, 104, 117401.	2.9	115
75	Resonance lineshapes in two-dimensional Fourier transform spectroscopy. <i>Optics Express</i> , 2010, 18, 17699.	1.7	128
76	Resonance lineshapes in two-dimensional Fourier transform spectroscopy. , 2010, , .		0
77	Many-body two-quantum coherences in 2D Fourier-Transform spectra of semiconductors. , 2010, , .		0
78	Coherent Linewidths of Interfacial GaAs Quantum Dot Excitons and Incoherent Coupling from Quantum Well Excitons. , 2010, , .		0
79	Linewidth and Coupling of Interfacial GaAs Quantum Dots Measured with Optical Two-Dimensional Fourier Transform Spectroscopy. , 2010, , .		0
80	Second harmonic generation from tetragonal centrosymmetric crystals. <i>Physical Review B</i> , 2009, 80, .	1.1	22
81	A versatile ultrastable platform for optical multidimensional Fourier-transform spectroscopy. <i>Review of Scientific Instruments</i> , 2009, 80, 073108.	0.6	162
82	Polarization dependence of semiconductor exciton and biexciton contributions to phase-resolved optical two-dimensional Fourier-transform spectra. <i>Physical Review B</i> , 2009, 79, .	1.1	64
83	Optical Two-Dimensional Fourier Transform Spectroscopy of Semiconductor Quantum Wells. <i>Accounts of Chemical Research</i> , 2009, 42, 1423-1432.	7.6	66
84	All-optical injection of ballistic electrical currents in unbiased silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 340-342.	0.8	1
85	All-optical retrieval of the global phase for two-dimensional Fourier-transform spectroscopy. <i>Optics Express</i> , 2008, 16, 18017.	1.7	73
86	Coherent optical processes of semiconductors studied via two-dimensional Fourier transform spectroscopy. , 2008, , .		0
87	Isolating excitonic Raman coherence in semiconductors using two-dimensional correlation spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 129, 234711.	1.2	53
88	Switchable Al _x Ga _{1-x} As all-optical delay line at 1.55 μm. <i>Applied Physics Letters</i> , 2007, 90, 101112.	1.5	5
89	Nonlinear absorption in Au films: Role of thermal effects. <i>Physical Review B</i> , 2007, 75, .	1.1	90
90	Enhanced second-harmonic generation in AlGaAs microring resonators. <i>Optics Letters</i> , 2007, 32, 826.	1.7	116

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91	Two-photon absorption and Kerr coefficients of silicon for 850-2200nm. Applied Physics Letters, 2007, 90, 191104.	1.5	537
92	Switchable All-Optical 188-ps Delay Line in AlGaAs. , 2007, , .		0
93	All-optical injection of ballistic electrical currents in unbiased silicon. Nature Physics, 2007, 3, 632-635.	6.5	72
94	Sum and difference frequency generation as diagnostics for leaky eigenmodes in two-dimensional photonic crystal waveguides. Journal of Applied Physics, 2006, 99, 023105.	1.1	6
95	Enhanced all-optical tuning of leaky eigenmodes in photonic crystal waveguides. Optics Letters, 2006, 31, 2284.	1.7	10
96	Linear and nonlinear optical properties of Au-polymer metallodielectric Bragg stacks. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2142.	0.9	28
97	Reflection and emission of Brillouin zone edge states for active photonic crystal waveguides. Journal of Optics, 2005, 7, S270-S275.	1.5	0
98	Ultrafast nonlinear tuning of the reflection properties of AlGaAs photonic crystal waveguides by two-photon absorption. Journal of Applied Physics, 2004, 96, 4729-4734.	1.1	12
99	Ultrafast nonlinear response of AlGaAs two-dimensional photonic crystal waveguides. Applied Physics Letters, 2003, 83, 851-853.	1.5	76
100	Defect states and commensurability in dual-period Al _x Ga _{1-x} As photonic crystal waveguides. Physical Review B, 2003, 68, .	1.1	31
101	Polarization conversion in the reflectivity properties of photonic crystal waveguides. IEEE Journal of Quantum Electronics, 2002, 38, 880-884.	1.0	38
102	Introductory Chapter: Overview of the Properties and Applications of Noble and Precious Metals. , 0, , .		4