

# Alan D Bristow

## List of Publications by Year in descending order

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102  
papers

6,028  
citations

147726

31  
h-index

69214

77  
g-index

104  
all docs

104  
docs citations

104  
times ranked

8084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Activity Enhanced by Plasmonic Resonant Energy Transfer from Metal to Semiconductor. <i>Journal of the American Chemical Society</i> , 2012, 134, 15033-15041.	6.6	1,052
2	Plasmon-induced resonance energy transfer for solar energy conversion. <i>Nature Photonics</i> , 2015, 9, 601-607.	15.6	587
3	Two-photon absorption and Kerr coefficients of silicon for 850–2200nm. <i>Applied Physics Letters</i> , 2007, 90, 191104.	1.5	537
4	Solar Hydrogen Generation by a CdS-Au-TiO <sub>2</sub> Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. <i>Journal of the American Chemical Society</i> , 2014, 136, 8438-8449.	6.6	533
5	Ag@Cu <sub>2</sub> O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. <i>ACS Catalysis</i> , 2013, 3, 47-51.	5.5	471
6	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. <i>ACS Catalysis</i> , 2013, 3, 746-751.	5.5	226
7	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO <sub>2</sub> Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16239-16244.	1.5	219
8	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. <i>ACS Catalysis</i> , 2017, 7, 1742-1748.	5.5	173
9	A versatile ultrastable platform for optical multidimensional Fourier-transform spectroscopy. <i>Review of Scientific Instruments</i> , 2009, 80, 073108.	0.6	162
10	Resonance lineshapes in two-dimensional Fourier transform spectroscopy. <i>Optics Express</i> , 2010, 18, 17699.	1.7	128
11	Enhanced second-harmonic generation in AlGaAs microring resonators. <i>Optics Letters</i> , 2007, 32, 826.	1.7	116
12	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
13	Ultrafast carrier dynamics in thin-films of the topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Applied Physics Letters</i> , 2013, 103, .	1.5	99
14	Two-Dimensional Double-Quantum Spectra Reveal Collective Resonances in an Atomic Vapor. <i>Physical Review Letters</i> , 2012, 108, 193201.	2.9	97
15	Nonlinear absorption in Au films: Role of thermal effects. <i>Physical Review B</i> , 2007, 75, .	1.1	90
16	Unraveling quantum pathways using optical 3D Fourier-transform spectroscopy. <i>Nature Communications</i> , 2013, 4, 1390.	5.8	88
17	Ultrafast nonlinear response of AlGaAs two-dimensional photonic crystal waveguides. <i>Applied Physics Letters</i> , 2003, 83, 851-853.	1.5	76
18	All-optical retrieval of the global phase for two-dimensional Fourier-transform spectroscopy. <i>Optics Express</i> , 2008, 16, 18017.	1.7	73



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37	Inverting Transient Absorption Data to Determine Transfer Rates in Quantum Dot TiO <sub>2</sub> Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6337-6343.	1.5	24
38	Multidimensional coherent spectroscopy of a semiconductor microcavity. <i>Physical Review B</i> , 2015, 91, .	1.1	23
39	Second harmonic generation from tetragonal centrosymmetric crystals. <i>Physical Review B</i> , 2009, 80, .	1.1	22
40	Terahertz generation by optical rectification in uniaxial birefringent crystals. <i>Optics Express</i> , 2012, 20, 16968.	1.7	21
41	Identification of photocurrents in topological insulators. <i>Optics Express</i> , 2016, 24, 23583.	1.7	21
42	Persistent spin helix manipulation by optical doping of a CdTe quantum well. <i>Physical Review B</i> , 2018, 97, .	1.1	20
43	Role of strain on the coherent properties of GaAs excitons and biexcitons. <i>Physical Review B</i> , 2016, 94, .	1.1	18
44	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
45	Terahertz emission from ZnGeP <sub>2</sub> : phase-matching, intensity, and length scalability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2882.	0.9	16
46	Investigation of band gap narrowing in nitrogen-doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> with transient absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31039-31043.	1.3	15
47	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
48	Surface Recombination in Ultra-Fast Carrier Dynamics of Perovskite Oxide La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Thin Films. <i>ACS Nano</i> , 2019, 13, 3457-3465.	7.3	15
49	Photoluminescence spectroscopy of YVO <sub>4</sub> :Eu <sup>3+</sup> nanoparticles with aromatic linker molecules: A precursor to biomedical functionalization. <i>Journal of Applied Physics</i> , 2014, 115, 163107.	1.1	13
50	Ultrafast nonlinear tuning of the reflection properties of AlGaAs photonic crystal waveguides by two-photon absorption. <i>Journal of Applied Physics</i> , 2004, 96, 4729-4734.	1.1	12
51	Transport of a persistent spin helix drifting transverse to the spin texture. <i>Physical Review B</i> , 2019, 99, .	1.1	11
52	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
53	Enhanced all-optical tuning of leaky eigenmodes in photonic crystal waveguides. <i>Optics Letters</i> , 2006, 31, 2284.	1.7	10
54	Hot-carrier dynamics in InAs/AlAsSb multiple-quantum wells. <i>Scientific Reports</i> , 2021, 11, 10483.	1.6	10

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55	Dynamical formation and active control of persistent spin helices in III-V and II-VI quantum wells. Semiconductor Science and Technology, 2019, 34, 093002.	1.0	9
56	Coherent coupling between exciton resonances governed by the disorder potential. Physical Review B, 2013, 88, .	1.1	8
57	Optical absorption and disorder in delafossites. Applied Physics Letters, 2017, 111, 012102.	1.5	8
58	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
59	Carrier transport and electron–lattice interactions of nonlinear optical crystals CdGeP <sub>2</sub> , ZnGeP <sub>2</sub> , and CdSiP <sub>2</sub> . Journal of the Optical Society of America B: Optical Physics, 2021, 38, 769.	0.9	6
60	Automated polarization-dependent multidimensional coherent spectroscopy phased using transient absorption. Optics Express, 2019, 27, 31790.	1.7	6
61	Switchable Al <sub>x</sub> Ga <sub>1-x</sub> As all-optical delay line at 1.55 μm. Applied Physics Letters, 2007, 90, 101112.	1.5	5
62	Signatures of four-particle correlations associated with exciton-carrier interactions in coherent spectroscopy on bulk GaAs. Physical Review B, 2016, 94, .	1.1	5
63	Coupled exciton-trion spin dynamics in a MoSe <sub>2</sub> monolayer. 2D Materials, 2018, 5, 045024.	2.0	5
64	Spin-locked transport in a two-dimensional electron gas. Physical Review B, 2020, 101, .	1.1	5
65	Giant Third-Harmonic Optical Generation from Topological Insulator Heterostructures. Nano Letters, 2021, 21, 8872-8879.	4.5	5
66	Introductory Chapter: Overview of the Properties and Applications of Noble and Precious Metals. , 0, , .		4
67	Stimulated two-photon emission in bulk CdSe. Optics Letters, 2018, 43, 5066.	1.7	4
68	Coherent contributions to population dynamics in a semiconductor microcavity. Physical Review B, 2022, 105, .	1.1	4
69	Identification of a Fe-Dependent Optical Mode in CuAl <sub>1-x</sub> Fe <sub>x</sub> O <sub>2</sub> . Journal of Physical Chemistry C, 2021, 125, 3577-3583.	1.5	3
70	Application of wavelet analysis on transient reflectivity in ultra-thin films. Optics Express, 2019, 27, 14684.	1.7	3
71	Fast phase cycling in non-collinear optical two-dimensional coherent spectroscopy. Optics Letters, 2020, 45, 5852.	1.7	3
72	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

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73	Optical three-dimensional coherent spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
74	Above and below band edge light recovery with plasmonics. Proceedings of SPIE, 2015, , .	0.8	2
75	Analysis of complex multidimensional optical spectra by linear prediction. Optics Express, 2021, 29, 37525.	1.7	2
76	Hot-carrier dynamics and transport in III-V heterostructures for photovoltaic applications. Journal of Photonics for Energy, 2022, 12, .	0.8	2
77	All-optical injection of ballistic electrical currents in unbiased silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 340-342.	0.8	1
78	Revealing exciton dephasing and transport dynamics in semiconductor quantum well - quantum dot systems using optical 2D Fourier transform spectroscopy. , 2012, , .		1
79	Optical Multidimensional Spectroscopy of Atomic Vapor. EPL Web of Conferences, 2013, 41, 02010.	0.1	1
80	Hot-carrier dynamics of type-II InAs/AlAs <sub>1-x</sub> Sb <sub>x</sub> quantum wells. , 2020, , .		1
81	Nonequilibrium Hot-Carrier Transport in Type-II Multiple Quantum Wells for Solar-Cell Applications. Physical Review Applied, 2022, 18, .	1.5	1
82	Reflection and emission of Brillouin zone edge states for active photonic crystal waveguides. Journal of Optics, 2005, 7, S270-S275.	1.5	0
83	Switchable All-Optical 188-ps Delay Line in AlGaAs. , 2007, , .		0
84	Coherent optical processes of semiconductors studied via two-dimensional Fourier transform spectroscopy. , 2008, , .		0
85	Advances in optical two-dimensional spectroscopy applied to the study of semiconductor and atomic systems. Proceedings of SPIE, 2010, , .	0.8	0
86	Multidimensional coherent spectroscopy of a semiconductor microcavity. , 2016, , .		0
87	Two-dimensional coherent spectroscopy of excitons, biexcitons and exciton-polaritons. , 2016, , .		0
88	Control of hot carrier thermalization in type-II quantum wells: a route to practical hot carrier solar cells. , 2018, , .		0
89	Resonance lineshapes in two-dimensional Fourier transform spectroscopy. , 2010, , .		0
90	Many-body two-quantum coherences in 2D Fourier-Transform spectra of semiconductors. , 2010, , .		0

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91	Coherent Linewidths of Interfacial GaAs Quantum Dot Excitons and Incoherent Coupling from Quantum Well Excitons. , 2010, , .		0
92	Linewidth and Coupling of Interfacial GaAs Quantum Dots Measured with Optical Two-Dimensional Fourier Transform Spectroscopy. , 2010, , .		0
93	Two-Dimensional Coherent Spectroscopy of Strained GaAs. , 2016, , .		0
94	Hot-carrier cooling dynamics of type-II InAs/AlAl <sub>1-x</sub> Sbx quantum wells. , 2019, , .		0
95	Phase-resolved multi-dimensional coherent spectroscopy with automated polarization control. , 2019, , .		0
96	Ultra-Fast Phenomena in Perovskite Oxide La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Thin Films. , 2019, , .		0
97	Terahertz generation by optical rectification in chalcopyrite crystals ZnGeP <sub>2</sub> , CdGeP <sub>2</sub> and CdSiP <sub>2</sub> . , 2019, , .		0
98	Ultrafast Carrier Dynamics and Photoconductivity of the Chalcopyrite Crystals. , 2020, , .		0
99	Mixing-time evolution of coherent exciton-polariton response due to many-body interactions. , 2020, , .		0
100	Non-equilibrium carrier transport and dynamics of type-II quantum wells. , 2021, , .		0
101	Coherent and incoherent contribution of population dynamics of semiconductor exciton-polaritons. , 2021, , .		0
102	Excitation Dynamics and Dielectric Resonance Energy Transfer in Cu <sub>2</sub> O Nanocubes. , 2021, , .		0