

Aaron D Slepkov

List of Publications by Year in descending order

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66
papers

1,588
citations

430754

18
h-index

289141

40
g-index

66
all docs

66
docs citations

66
times ranked

1757
citing authors

#	ARTICLE	IF	CITATIONS
1	A Baseline for Multiple-Choice Testing in the University Classroom. SAGE Open, 2021, 11, 215824402110168.	0.8	7
2	Integrated Testlets in Optics and Photonics: A Novel Assessment Tool and its Online Deployment. , 2021, , .		0
3	Fruit photonics and the shape of water. Physics Today, 2020, 73, 62-63.	0.3	2
4	Polarization-enabled spectral-focusing CARS microscopy. OSA Continuum, 2020, 3, 2766.	1.8	1
5	Microwave induced mechanical activation of hydrogel dimers. Soft Matter, 2019, 15, 5804-5809.	1.2	3
6	Partial Credit in Answer-Until-Correct Multiple-Choice Tests Deployed in a Classroom Setting. Applied Measurement in Education, 2019, 32, 138-150.	0.5	9
7	Linking plasma formation in grapes to microwave resonances of aqueous dimers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4000-4005.	3.3	85
8	Application of spectral-focusing-CARS microscopy to pharmaceutical sample analysis. AIP Advances, 2018, 8, 095213.	0.6	12
9	Interplay of pulse bandwidth and spectral resolution in spectral-focusing CARS microscopy. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 842.	0.9	15
10	Comparison of two photonic crystal fibers for supercontinuum-Stokes spectral-focusing-CARS hyperspectroscopy. OSA Continuum, 2018, 1, 1385.	1.8	7
11	Spectral-surfing CARS hypermicroscopy of pharmaceutical samples with commercial supercontinuum generating photonic crystal fibres. , 2018, , .		0
12	10.1063/1.5027273.1. , 2018, , .		0
13	Brighter CARS hypermicroscopy via "spectral surfing", 2017, , .		0
14	Grape balls of fire!: Photonic interactions of hyperfrequency radiation with aqueous dielectric spheres. , 2017, , .		0
15	Brighter CARS hypermicroscopy via "spectral surfing" of a Stokes supercontinuum. Optics Letters, 2017, 42, 2255.	1.7	10
16	Ultra-broadband coherent anti-Stokes Raman scattering microscopy with a dynamically power-tuned Stokes supercontinuum. , 2017, , .		0
17	Spectrally-broad coherent anti-Stokes Raman scattering hyper-microscopy utilizing a Stokes supercontinuum pumped at 800 nm. Biomedical Optics Express, 2016, 7, 4335.	1.5	16
18	Score Increase and Partial-Credit Validity When Administering Multiple-Choice Tests Using an Answer-Until-Correct Format. Journal of Chemical Education, 2016, 93, 1839-1846.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Sub-mM Imaging of Carotenoids Using Electronic and Vibrational Nonlinear Optical Microscopy. , 2015, , .		0
20	Mimicking Multimodal Contrast with Vertex Component Analysis of Hyperspectral CARS Images. Journal of Spectroscopy, 2015, 2015, 1-8.	0.6	6
21	Benford's Law: Textbook Exercises and Multiple-Choice Testbanks. PLoS ONE, 2015, 10, e0117972.	1.1	17
22	â€œMultimodal Contrastâ€•from the Vertex Component Analysis of Hyperspectral CARS Images. , 2015, , .		0
23	Label-free hyperspectral nonlinear optical microscopy of the biofuel micro-algae Haematococcus Pluvialis. Biomedical Optics Express, 2014, 5, 3391.	1.5	14
24	Hyperspectral multimodal CARS microscopy in the fingerprint region. Journal of Biophotonics, 2014, 7, 49-58.	1.1	37
25	Comparison of integrated testlet and constructed-response question formats. Physical Review Physics Education Research, 2014, 10, .	1.7	8
26	In vivo hyperspectral CARS and FWM microscopy of carotenoid accumulation in H. Pluvialis. , 2014, , .		2
27	Diverse suggestions for improving physics teaching. Physics Today, 2014, 67, 12-12.	0.3	0
28	Spatial-spectral coupling in hyperspectral CARS microscopy image formation. Proceedings of SPIE, 2013, , .	0.8	1
29	Spatial-spectral coupling in coherent anti-Stokes Raman scattering microscopy. Optics Express, 2013, 21, 15298.	1.7	11
30	Integrated testlets and the immediate feedback assessment technique. American Journal of Physics, 2013, 81, 782-791.	0.3	15
31	Unraveling the complexity of deep gas accumulations with three-dimensional multimodal CARS microscopy. Geology, 2012, 40, 1063-1066.	2.0	20
32	Two-Photon Absorption Properties of Two-Dimensional π -Conjugated Chromophores: Combined Experimental and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 105-117.	1.1	54
33	Pulse splitting in the anomalous group-velocity-dispersion regime. Optics Express, 2011, 19, 9309.	1.7	10
34	SIMS analysis of Rb-doped hollow-core photonic band-gap silica fiber using a CAMECA 4550 instrument. Surface and Interface Analysis, 2011, 43, 566-568.	0.8	0
35	Forward-collected simultaneous fluorescence lifetime imaging and coherent anti-Stokes Raman scattering microscopy. Journal of Biomedical Optics, 2011, 16, 021103.	1.4	23
36	Using multimodal femtosecond CARS imaging to determine plaque burden in luminal atherosclerosis. Proceedings of SPIE, 2011, , .	0.8	2

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37	High performance multimodal CARS microscopy using a single femtosecond source. Proceedings of SPIE, 2010, , .	0.8	1
38	Single laser source for multimodal coherent anti-Stokes Raman scattering microscopy. Applied Optics, 2010, 49, F10.	2.1	18
39	Multimodal CARS microscopy of structured carbohydrate biopolymers. Biomedical Optics Express, 2010, 1, 1347.	1.5	37
40	All-optical modulation of four-wave mixing in an Rb-filled photonic bandgap fiber. Optics Letters, 2010, 35, 2287.	1.7	17
41	Spectroscopy of Rb atoms in hollow-core fibers. Physical Review A, 2010, 81, .	1.0	54
42	Chip-Based Optical Interactions with Rubidium Vapor. , 2010, , .		1
43	Optimizing Spectral Resolution in Supercontinuum-Generation-Based Multimodal fs CARS Microscopy. , 2010, , .		0
44	On-demand all-optical generation of controlled Rb-vapor densities in photonic-band-gap fibers. Physical Review A, 2009, 79, .	1.0	27
45	Ultralow-Power Four-Wave Mixing with Rb in a Hollow-Core Photonic Band-Gap Fiber. Physical Review Letters, 2009, 103, 043602.	2.9	59
46	Diffusion and Redistribution of Rubidium in Hollow-Core Photonic Bandgap Fibers. , 2009, , .		0
47	Ultralow-power nonlinear optics with Rb-filled photonic band-gap fibers. , 2009, , .		0
48	All-Optical Modulation of Four Wave Mixing in a Rb-Filled Hollow-Core Photonic Band-Gap Fiber. , 2009, , .		0
49	Generation of large alkali vapor densities inside bare hollow-core photonic band-gap fibers. Optics Express, 2008, 16, 18976.	1.7	53
50	Production of controllable Rb-vapor densities in photonic bandgap fibers. , 2008, , .		1
51	Absorption of ultrashort optical pulses in water. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 3343.	0.8	13
52	Donor/Acceptor Effects on the Linear and Nonlinear Optical Properties of Geminal Diethynylethenes (g-DEEs). Helvetica Chimica Acta, 2007, 90, 909-927.	1.0	23
53	Two-photon absorption in two-dimensional conjugated quadrupolar chromophores. Optics Letters, 2006, 31, 3315.	1.7	38
54	The effects of donor-acceptor substitution symmetry on the nonlinear absorption of two-dimensionally-conjugated isomeric chromophores. , 2005, , .		0

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55	The one-dimensional nature of polyynes. , 2005, , .		0
56	Synthesis, Structure, and Nonlinear Optical Properties of Cross-Conjugated Perphenylatediso-Polydiacetylenes. Chemistry - A European Journal, 2005, 11, 321-329.	1.7	51
57	Synthesis, Spectroscopic and Nonlinear Optical Properties of Multiple [60]Fullerene-Oligo(p-phenylene ethynylene) Hybrids. Chemistry - A European Journal, 2005, 11, 3643-3658.	1.7	82
58	Synthesis, Structure, and Nonlinear Optical Properties of Diarylpolyynes.. ChemInform, 2005, 36, no.	0.1	1
59	Ultrafast time-resolved and spectrally resolved measurements of third-order nonlinearities in As ₂ Se ₃ chalcogenide glass. , 2005, , .		0
60	Synthesis, Structure, and Nonlinear Optical Properties of Diarylpolyynes. Organic Letters, 2005, 7, 51-54.	2.4	104
61	Polyynes as a Model for Carbyne:Â Synthesis, Physical Properties, and Nonlinear Optical Response. Journal of the American Chemical Society, 2005, 127, 2666-2676.	6.6	366
62	The surprising nonlinear optical properties of conjugated polyynes oligomers. Journal of Chemical Physics, 2004, 120, 6807-6810.	1.2	152
63	Ultrafast optical Kerr effect measurements of third-order nonlinearities in cross-conjugatediso-polydiacetylene oligomers. Journal of Chemical Physics, 2002, 116, 3834-3840.	1.2	73
64	Optical properties of cross-conjugated isopolydiacetylene oligomers as measured by ultravioletÂvisible spectroscopy and the optical Kerr effect. Journal of Optics, 2002, 4, S207-S211.	1.5	5
65	Far-infrared optical properties of antiferromagneticSmTiO ₃ . Physical Review B, 1999, 59, 6938-6942.	1.1	6
66	Integrated Testlets: A New Form of Expert-Student Collaborative Testing. Collected Essays on Learning and Teaching, 0, 8, 201-210.	0.0	7