

Andon A Rangelov

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,344
citations

471061

17
h-index

344852

36
g-index

57
all docs

57
docs citations

57
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimulated Raman adiabatic passage in physics, chemistry, and beyond. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	560
2	Stark-shift-chirped rapid-adiabatic-passage technique among three states. <i>Physical Review A</i> , 2005, 72, .	1.0	80
3	Extension of the Morris-Shore transformation to multilevel ladders. <i>Physical Review A</i> , 2006, 74, .	1.0	53
4	Achromatic multiple beam splitting by adiabatic passage in optical waveguides. <i>Physical Review A</i> , 2012, 85, .	1.0	46
5	Highly efficient broadband conversion of light polarization by composite retarders. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 265.	0.8	35
6	Broadband adiabatic light transfer in optically induced waveguide arrays. <i>Physical Review A</i> , 2013, 87, .	1.0	35
7	Complete population transfer in a three-state quantum system by a train of pairs of coincident pulses. <i>Physical Review A</i> , 2012, 85, .	1.0	32
8	Planar achromatic multiple beam splitter by adiabatic light transfer. <i>Optics Letters</i> , 2012, 37, 3789.	1.7	30
9	Complete achromatic optical switching between two waveguides with a sign flip of the phase mismatch. <i>Physical Review A</i> , 2014, 90, .	1.0	29
10	Counterintuitive transitions between crossing energy levels. <i>Physical Review A</i> , 2005, 72, .	1.0	27
11	Adiabatic three-waveguide coupler. <i>Physical Review A</i> , 2016, 93, .	1.0	26
12	Variable ultrabroadband and narrowband composite polarization retarders. <i>Applied Optics</i> , 2012, 51, 7466.	0.9	25
13	Control of adiabatic light transfer in coupled waveguides with longitudinally varying detuning. <i>Physical Review A</i> , 2017, 95, .	1.0	25
14	Adiabatic following for a three-state quantum system. <i>Optics Communications</i> , 2017, 382, 196-200.	1.0	20
15	Broadband adiabatic conversion of light polarization. <i>Optics Communications</i> , 2010, 283, 3891-3894.	1.0	18
16	Wireless adiabatic power transfer. <i>Annals of Physics</i> , 2011, 326, 626-633.	1.0	18
17	Broadband composite polarization rotator. <i>Optics Communications</i> , 2015, 338, 574-577.	1.0	18
18	Factorizing numbers with classical interference: several implementations in optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 021002.	0.6	17

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19	Analog to electromagnetically induced transparency and Autler-Townes effect demonstrated with photoinduced coupled waveguides. <i>Physical Review A</i> , 2013, 88, .	1.0	16
20	Population trapping in three-state quantum loops revealed by Householder reflections. <i>Physical Review A</i> , 2008, 77, .	1.0	14
21	Broadband sum-frequency generation using cascaded processes via chirped quasi-phase-matching. <i>Physical Review A</i> , 2012, 85, .	1.0	14
22	Tunable bandwidth optical rotator. <i>Photonics Research</i> , 2015, 3, 177.	3.4	13
23	Broadband and ultra-broadband modular half-wave plates. <i>Optics Communications</i> , 2016, 366, 382-385.	1.0	13
24	Broadband photonic transport between waveguides by adiabatic elimination. <i>Physical Review A</i> , 2018, 97, .	1.0	13
25	Stimulated Raman adiabatic passage into continuum. <i>Physical Review A</i> , 2007, 76, .	1.0	12
26	Robust and broadband frequency conversion in composite crystals with tailored segment widths and $\chi^{(2)}$ nonlinearities of alternating signs. <i>Optics Letters</i> , 2014, 39, 2959.	1.7	12
27	Broadband Faraday isolator. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 149.	0.8	11
28	Mid-range adiabatic wireless energy transfer via a mediator coil. <i>Annals of Physics</i> , 2012, 327, 2245-2250.	1.0	9
29	Adiabatic evolution of light in an array of parallel curved optical waveguides. <i>Physical Review A</i> , 2013, 88, .	1.0	9
30	Broadband and ultra-broadband polarization rotators with adiabatic modular design. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 075605.	1.0	9
31	Robust, efficient, and broadband SHG of ultrashort pulses in composite crystals. <i>Optics Letters</i> , 2019, 44, 3837.	1.7	9
32	Stimulated Raman adiabatic passage analogues in classical physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 055504.	0.6	8
33	Broadband Polarization Rotator With Tunable Rotation Angle Composed of Three Wave Plates. <i>Physical Review Applied</i> , 2020, 13, .	1.5	8
34	Achromatic change of circular polarization handedness. <i>Optics Communications</i> , 2012, 285, 4157-4160.	1.0	7
35	Broadband integrated polarization beam splitting based on anisotropic adiabatic transfer of light. <i>Physical Review A</i> , 2019, 100, .	1.0	7
36	Nonlinear adiabatic optical isolator. <i>Applied Optics</i> , 2017, 56, 2991.	2.1	7

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37	Steering population flow in coherently driven lossy quantum ladders. <i>Journal of Chemical Physics</i> , 2006, 125, 014302.	1.2	6
38	Stimulated Raman adiabatic passage with temporal pulselets. <i>Optics Communications</i> , 2010, 283, 730-736.	1.0	6
39	Efficient broadband frequency generation in composite crystals. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 062001.	1.0	6
40	Rapid adiabatic passage without level crossing. <i>Optics Communications</i> , 2010, 283, 1346-1350.	1.0	5
41	Achromatic polarization rotator with tunable rotation angle. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 105403.	1.0	5
42	Ultrabroadband beam splitting in a dissipative system of three waveguides. <i>Physical Review A</i> , 2021, 103, .	1.0	5
43	Achromatic polarization retarder realized with slowly varying linear and circular birefringence. <i>Optics Letters</i> , 2011, 36, 2716.	1.7	4
44	Broadband optical isolator in fibre optics. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 085401.	1.0	4
45	Propagation of light polarization in a birefringent medium: Exact analytic models. <i>Optics Communications</i> , 2011, 284, 2642-2647.	1.0	3
46	Efficient broadband composite optical isolator. <i>Applied Optics</i> , 2013, 52, 8528.	0.9	3
47	Non-reciprocal wave retarder based on optical rotators combination. <i>OSA Continuum</i> , 2021, 4, 2695.	1.8	3
48	Piecewise Adiabatic Passage in Polarization Optics: an Achromatic Polarization Rotator. <i>Advances in Chemical Physics</i> , 2016, , 219-234.	0.3	1
49	Segmented Composite Optical Parametric Amplification. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1220.	1.3	1
50	Planar n-fold Beam Splitter Based on Adiabatic Light Transfer. , 2012, , .		0
51	Demonstration of reconfigurable optical functions inspired by quantum effects. , 2013, , .		0
52	Adiabatic frequency conversion with a sign flip in the coupling. <i>Physical Review A</i> , 2016, 94, .	1.0	0
53	Quantum-like adiabatic light transfer in photo-induced waveguides with longitudinally varying detuning. <i>Journal of Physics: Conference Series</i> , 2017, 867, 012024.	0.3	0
54	Adiabatic motion of a charged particle in spatially uniform and nonuniform static magnetic fields. <i>Physica Scripta</i> , 2019, 94, 055501.	1.2	0

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55	Ultra-Broadband Beam Splitting in Three-Waveguide System with Dissipation. , 2021, , .		0
56	All optical analogue to Electromagnetically Induced Transparency and Autler-Townes effect. , 2013, , .		0