Andon A Rangelov

List of Publications by Year
in descending order

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	Ultrabroadband beam splitting in a dissipative system of three waveguides. Physical Review A, 2021, 103, .	1.0	5
2	Ultra-Broadband Beam Splitting in Three-Waveguide System with Dissipation. , 2021, , .		0
3	Non-reciprocal wave retarder based on optical rotators combination. OSA Continuum, 2021, 4, 2695.	1.8	3
4	Broadband Polarization Rotator With Tunable Rotation Angle Composed of Three Wave Plates. Physical Review Applied, 2020, 13, .	1.5	8
5	Segmented Composite Optical Parametric Amplification. Applied Sciences (Switzerland), 2020, 10, 1220.	1.3	1
6	Achromatic polarization rotator with tunable rotation angle. Journal of Optics (United Kingdom), 2019, 21, 105403.	1.0	5
7	Adiabatic motion of a charged particle in spatially uniform and nonuniform static magnetic fields. Physica Scripta, 2019, 94, 055501.	1.2	0
8	Broadband integrated polarization beam splitting based on anisotropic adiabatic transfer of light. Physical Review A, 2019, 100, .	1.0	7
9	Robust, efficient, and broadband SHG of ultrashort pulses in composite crystals. Optics Letters, 2019, 44, 3837.	1.7	9
10	Broadband photonic transport between waveguides by adiabatic elimination. Physical Review A, 2018, 97, .	1.0	13
11	Stimulated Raman adiabatic passage in physics, chemistry, and beyond. Reviews of Modern Physics, 2017, 89, .	16.4	560
12	Control of adiabatic light transfer in coupled waveguides with longitudinally varying detuning. Physical Review A, 2017, 95, .	1.0	25
13	Quantum-like adiabatic light transfer in photo-induced waveguides with longitudinally varying detuning. Journal of Physics: Conference Series, 2017, 867, 012024.	0.3	0
14	Adiabatic following for a three-state quantum system. Optics Communications, 2017, 382, 196-200.	1.0	20
15	Nonlinear adiabatic optical isolator. Applied Optics, 2017, 56, 2991.	2.1	7
16	Piecewise Adiabatic Passage in Polarization Optics: an Achromatic Polarization Rotator. Advances in Chemical Physics, 2016, , 219-234.	0.3	1
17	Adiabatic frequency conversion with a sign flip in the coupling. Physical Review A, 2016, 94, .	1.0	0
18	Adiabatic three-waveguide coupler. Physical Review A, 2016, 93, .	1.0	26

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19	Broadband and ultra-broadband modular half-wave plates. Optics Communications, 2016, 366, 382-385.	1.0	13
20	Broadband and ultra-broadband polarization rotators with adiabatic modular design. Journal of Optics (United Kingdom), 2015, 17, 075605.	1.0	9
21	Tunable bandwidth optical rotator. Photonics Research, 2015, 3, 177.	3.4	13
22	Broadband composite polarization rotator. Optics Communications, 2015, 338, 574-577.	1.0	18
23	Complete achromatic optical switching between two waveguides with a sign flip of the phase mismatch. Physical Review A, 2014, 90, .	1.0	29
24	Robust and broadband frequency conversion in composite crystals with tailored segment widths and Ï‡^(2) nonlinearities of alternating signs. Optics Letters, 2014, 39, 2959.	1.7	12
25	Efficient broadband frequency generation in composite crystals. Journal of Optics (United Kingdom), 2014, 16, 062001.	1.0	6
26	Adiabatic evolution of light in an array of parallel curved optical waveguides. Physical Review A, 2013, 88, .	1.0	9
27	Analog to electromagnetically induced transparency and Autler-Townes effect demonstrated with photoinduced coupled waveguides. Physical Review A, 2013, 88, .	1.0	16
28	Broadband adiabatic light transfer in optically induced waveguide arrays. Physical Review A, 2013, 87, .	1.0	35
29	Efficient broadband composite optical isolator. Applied Optics, 2013, 52, 8528.	0.9	3
30	Broadband optical isolator in fibre optics. Journal of Optics (United Kingdom), 2013, 15, 085401.	1.0	4
31	Broadband Faraday isolator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 149.	0.8	11
32	Demonstration of reconfigurable optical functions inspired by quantum effects. , 2013, , .		0
33	All optical analogue to Electromagnetically Induced Transparency and Autler-Townes effect. , 2013, , .		0
34	Highly efficient broadband conversion of light polarization by composite retarders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 265.	0.8	35
35	Variable ultrabroadband and narrowband composite polarization retarders. Applied Optics, 2012, 51, 7466.	0.9	25
36	Planar achromatic multiple beam splitter by adiabatic light transfer. Optics Letters, 2012, 37, 3789.	1.7	30

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37	Complete population transfer in a three-state quantum system by a train of pairs of coincident pulses. Physical Review A, 2012, 85, .	1.0	32
38	Planar n-fold Beam Splitter Based on Adiabatic Light Transfer. , 2012, , .		0
39	Mid-range adiabatic wireless energy transfer via a mediator coil. Annals of Physics, 2012, 327, 2245-2250.	1.0	9
40	Achromatic change of circular polarization handedness. Optics Communications, 2012, 285, 4157-4160.	1.0	7
41	Broadband sum-frequency generation using cascaded processes via chirped quasi-phase-matching. Physical Review A, 2012, 85, .	1.0	14
42	Achromatic multiple beam splitting by adiabatic passage in optical waveguides. Physical Review A, 2012, 85, .	1.0	46
43	Achromatic polarization retarder realized with slowly varying linear and circular birefringence. Optics Letters, 2011, 36, 2716.	1.7	4
44	Wireless adiabatic power transfer. Annals of Physics, 2011, 326, 626-633.	1.0	18
45	Propagation of light polarization in a birefringent medium: Exact analytic models. Optics Communications, 2011, 284, 2642-2647.	1.0	3
46	Stimulated Raman adiabatic passage with temporal pulselets. Optics Communications, 2010, 283, 730-736.	1.0	6
47	Broadband adiabatic conversion of light polarization. Optics Communications, 2010, 283, 3891-3894.	1.0	18
48	Rapid adiabatic passage without level crossing. Optics Communications, 2010, 283, 1346-1350.	1.0	5
49	Stimulated Raman adiabatic passage analogues in classical physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 055504.	0.6	8
50	Factorizing numbers with classical interference: several implementations in optics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 021002.	0.6	17
51	Population trapping in three-state quantum loops revealed by Householder reflections. Physical Review A, 2008, 77, .	1.0	14
52	Stimulated Raman adiabatic passage into continuum. Physical Review A, 2007, 76, .	1.0	12
53	Extension of the Morris-Shore transformation to multilevel ladders. Physical Review A, 2006, 74, .	1.0	53
54	Steering population flow in coherently driven lossy quantum ladders. Journal of Chemical Physics, 2006, 125, 014302.	1.2	6

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55	Stark-shift-chirped rapid-adiabatic-passage technique among three states. Physical Review A, 2005, 72, .	1.0	80
56	Counterintuitive transitions between crossing energy levels. Physical Review A, 2005, 72, .	1.0	27