

Bakht Amin Bacha

List of Publications by Year in descending order

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papers

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44
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citing authors

#	ARTICLE	IF	CITATIONS
1	Gain-assisted superluminal propagation and rotary drag of photon and surface plasmon polaritons. <i>Physical Review A</i> , 2017, 96, .	2.5	36
2	Optical activity via Kerr nonlinearity in a spinning chiral medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3724-3731.	2.1	24
3	Photon drag enhancement by a slow-light moving medium via electromagnetically-induced transparency amplification. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3134-3140.	2.1	24
4	Coherent control of polarization state rotation via Doppler broadening and Kerr nonlinearity in a spinning fast light medium. <i>Laser Physics</i> , 2014, 24, 115404.	1.2	20
5	Tunable subluminal to superluminal propagation via spatio-temporal solitons by application of Laguerre fields intensities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 388, 127041.	2.1	20
6	Gain assisted multiple superluminal regions via a Kerr nonlinearity in a double lambda-type atomic configuration. <i>Laser Physics</i> , 2014, 24, 055401.	1.2	18
7	The hybrid mode propagation of surface plasmon polaritons at the interface of graphene and a chiral medium. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	18
8	Birefringent lateral Goos-Hänchen effect through chiral medium. <i>Physica Scripta</i> , 2020, 95, 095102.	2.5	18
9	Birefringence of rotary photon drags through induced chiral atomic medium. <i>Physica Scripta</i> , 2020, 95, 075109.	2.5	16
10	Tunnelling based birefringent phase sensitivity through dynamic chiral medium. <i>Physica Scripta</i> , 2021, 96, 035106.	2.5	16
11	Optical soliton through induced cesium doppler broadening medium. <i>Physica Scripta</i> , 2020, 95, 085102.	2.5	15
12	Inverse Doppler shift and control field as coherence generators for the stability in superluminal light. <i>Physical Review A</i> , 2015, 91, .	2.5	14
13	High-resolution two-dimensional atomic microscopy in a tripod-type four-level atomic medium via standing wave fields. <i>Laser Physics</i> , 2020, 30, 115402.	1.2	14
14	Complex conductivity-dependent two-dimensional atom microscopy. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	13
15	Surface plasmon induced atom localization in a tripod-type four level atomic system. <i>Physica Scripta</i> , 2019, 94, 035401.	2.5	13
16	Tunnelling based birefringent rotary photon dragging through induced chiral medium. <i>Physica Scripta</i> , 2021, 96, 055101.	2.5	11
17	Distortion-free conductivity-dependent temporal cloak based on tunnelling chiral medium. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	11
18	Particle microscopy by surface plasmon polariton waves at the interface of dielectric and silver silica nano-composites. <i>Physica Scripta</i> , 2021, 96, 015104.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Conductivity dependent surface plasmon polariton propagation. Laser Physics, 2016, 26, 095204.	1.2	9
20	Unusual refraction and Fizeau effect for a linearly polarized pulse in rotary chiral media. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1817.	2.1	9
21	The event cloaking from a birefringent medium via Kerr nonlinearity. Journal of Optics (United Kingdom), 2018, 21, 181718.	2.2	9
22	Temporal cloak via Doppler broadening. Laser Physics, 2015, 25, 065405.	1.2	7
23	Conductivity-dependent absorption-free, gain-assisted superluminal propagation and rotary photon drag. Optical Materials, 2021, 115, 111047.	3.6	6
24	Tunable control of internet of things information hacking by application of the induced chiral atomic medium. Soft Computing, 2022, 26, 10643-10650.	3.6	5
25	Manipulation of rotary photon drag in the region of spectral hole burning. European Physical Journal Plus, 2022, 137, 1.	2.6	5
26	Spectral Hole Burning via Kerr Nonlinearity. Communications in Theoretical Physics, 2015, 64, 473-478.	2.5	3
27	Gaussian Pulse Propagation via Bright and Dark Solitons through an Atomic Medium. Journal of Russian Laser Research, 2021, 42, 117-125.	0.6	3
28	Distortion-free propagation in a chiral medium using the coherent superposition of atomic states. Laser Physics, 2017, 27, 115203.	1.2	2
29	Reply to "Comment on "Inverse Doppler shift and control field as coherence generators for the stability in superluminal light". Physical Review A, 2019, 100, .	2.5	2
30	Spectral hole burning of surface plasmon polaritons via soliton waves at the interface of sodium and gold media. Physica Scripta, 2019, 94, 075403.	2.5	2
31	Plasmon's Fizeau dragging effect at the interface of atomic and nano-composites media. International Journal of Quantum Chemistry, 2021, 121, e26655.	2.0	2
32	Dynamics of bright optical solitons through a coherent atomic medium. Physica Scripta, 2021, 96, 105104.	2.5	2
33	Phase sensitive birefringent diffraction based on conductive tunneling chiral medium. Optik, 2021, 242, 167357.	2.9	2
34	Phase control of pulses distortions through induced circular birefringent chiral atomic medium. Optical and Quantum Electronics, 2022, 54, 1.	3.3	2
35	Reply to "Comment on "Gain-assisted superluminal propagation and rotary drag of photon and surface plasmon polaritons". Physical Review A, 2019, 99, .	2.5	1
36	Gaussian Pulse Distortion in a Nonlinear Induced Kerr Atomic Medium. Brazilian Journal of Physics, 2021, 51, 1265.	1.4	1

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37	Coherent control of complex conductivity in a conductive atomic medium. Laser Physics, 2021, 31, 076001.	1.2	1
38	Two-dimensional atom localization and formation of waveguide channels using Bragg diffraction law. Physica Scripta, 0, , .	2.5	1
39	Phase and velocity sensitivity of surface plasmon polaritons at the interface of atomic and nano-composites media. Physica Scripta, 0, , .	2.5	0
40	Localized Intensity of Tiny Goosâ€“H $\mathbf{\ddot{a}}$ nchen Shift in Reflection and Transmission. Brazilian Journal of Physics, 2021, 51, 1844-1852.	1.4	0
41	Space-time cloaking through a chiral atomic medium. Optical and Quantum Electronics, 2021, 53, 1.	3.3	0
42	Fizeauâ€™s light birefringence dragging effect in a moving chiral medium. European Physical Journal Plus, 2021, 136, 1.	2.6	0
43	Complex conductivity dependent surface plasmon polaritons at the interface of metal and silver silica nanocomposites. International Journal of Quantum Chemistry, 0, , e26831.	2.0	0