

# Seyyed Hossein Asadpour

## List of Publications by Citations

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114  
papers

1,275  
citations

21  
h-index

31  
g-index

117  
ext. papers

1,553  
ext. citations

2.1  
avg, IF

5.16  
L-index

#	Paper	IF	Citations
114	Phase control of optical bistability and multistability via spin coherence in a quantum well waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 1815	1.7	93
113	Controlling the optical bistability and transmission coefficient in a four-level atomic medium. <i>Journal of Luminescence</i> , <b>2012</b> , 132, 1477-1482	3.8	81
112	Enhanced Kerr nonlinearity in a tunnel-coupled double quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 44, 464-469	3	61
111	Enhancement of Kerr nonlinearity at long wavelength in a quantum dot nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 43, 1759-1762	3	52
110	Optical bistability and multistability via biexciton coherence in semiconductor quantum well nanostructure. <i>Optics Communications</i> , <b>2014</b> , 315, 347-351	2	51
109	Enhanced Kerr nonlinearity via quantum interference from spontaneous emission. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2012</b> , 376, 147-152	2.3	47
108	Infrared and terahertz signal detection in a quantum Dot nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2013</b> , 54, 45-52	3	47
107	Some optical properties of four-level media via coherent and incoherent pumping fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 641	1.7	42
106	Slow light propagation and bistable switching in a graphene under an external magnetic field. <i>Laser Physics Letters</i> , <b>2015</b> , 12, 045202	1.5	41
105	Phase control of Kerr nonlinearity due to quantum interference in a four-level N-type atomic system. <i>Journal of Luminescence</i> , <b>2012</b> , 132, 2188-2193	3.8	41
104	Controlling the optical bistability via quantum interference in a four-level N-type atomic system. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 1682-1686	3.8	34
103	Optical bistability via quantum interference from incoherent pumping and spontaneous emission. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 2395-2399	3.8	31
102	Giant Kerr nonlinearity in a four-level atomic medium. <i>Optik</i> , <b>2013</b> , 124, 366-370	2.5	30
101	ENHANCED KERR NONLINEARITY IN A FOUR-LEVEL EIT MEDIUM. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2010</b> , 19, 503-515	0.8	28
100	Phase control of optical bistability based biexciton coherence in a quantum dot nanostructure. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 440, 124-129	2.8	27
99	Realization of optical bistability and multistability in Landau-quantized graphene. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 183101	2.5	26
98	Subluminal and superluminal pulse propagation via spin coherence in a defect dielectric medium. <i>Optics Communications</i> , <b>2014</b> , 315, 394-398	2	25

97	Optical bistability and multistability in an open ladder-type atomic system. <i>Journal of Modern Optics</i> , <b>2013</b> , 60, 659-665	1.1	25
96	Optical bistability and multi-stability in a four-level atomic scheme. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 295-306	2.4	25
95	Phase and thickness control of optical bistability and multistability in a defect slab with a single layer of graphene. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 015201	1.5	24
94	Giant Kerr nonlinearity in an n-doped semiconductor quantum well. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 11-20	2.4	24
93	Phase dependence of optical bistability and multistability in a four-level quantum system near a plasmonic nanostructure. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 023102	2.5	20
92	Enhancement of Goos-Hänchen shift due to a Rydberg state. <i>Applied Optics</i> , <b>2018</b> , 57, 4013-4019	1.7	19
91	Phase-dependent electromagnetically induced grating in a four-level quantum system near a plasmonic nanostructure. <i>European Physical Journal Plus</i> , <b>2018</b> , 133, 1	3.1	18
90	Phase dependence of optical bistability and multistability in graphene nanostructure under external magnetic field. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 015204	1.5	14
89	Theoretical Investigation of Optical Bistability and Multistability Via Spontaneously Generated Coherence in Four-Level Rydberg Atoms. <i>International Journal of Theoretical Physics</i> , <b>2019</b> , 58, 1359-1368	1.1	13
88	Impact of exciton spin relaxation (ESR) on Kerr nonlinearity in a quantum well nanostructure. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 449, 77-84	2.8	13
87	Tunneling induced two-dimensional phase grating in a quantum well nanostructure via third and fifth orders of susceptibility. <i>Scientific Reports</i> , <b>2020</b> , 10, 7389	4.9	13
86	Role of incoherent pumping field on absorption dispersion properties of probe pulse in a graphene nanostructure under external magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 71, 123-129	3	12
85	Transmission and reflection properties of incident pulse in a dielectric slab doped with quantum dot. <i>Superlattices and Microstructures</i> , <b>2013</b> , 62, 217-224	2.8	11
84	Lasing without population inversion in an Er <sup>3+</sup> -doped YAG crystal. <i>Journal of Modern Optics</i> , <b>2012</b> , 59, 446-454	1.1	11
83	Enhancement of refractive index with amplification in an InGaN/GaN quantum dot nanostructure. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 045204	1.5	11
82	Controlling of Goos-Hänchen shift via biexciton coherence in a quantum dot. <i>JETP Letters</i> , <b>2015</b> , 101, 481-488	1.2	10
81	Role of exciton spin relaxation on optical bistability and multistability in a multiple quantum well nanostructure. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 401-412	2.4	10
80	Switching from optical bistability to multistability via terahertz signal radiation in a InGaN/GaN quantum dot nanostructure. <i>Optics Communications</i> , <b>2014</b> , 321, 104-109	2	10

79	Phase Control of Transient Optical Properties of Quantum-Dot Nanostructure via Terahertz Signal Radiation. <i>Chinese Physics Letters</i> , <b>2014</b> , 31, 114207	1.8	10
78	Phase control of Goos-Hänchen shift via biexciton coherence in a multiple quantum well. <i>Superlattices and Microstructures</i> , <b>2015</b> , 85, 112-123	2.8	9
77	Enhancement of Kerr nonlinearity at $\lambda = 1550$ nm in an Er <sup>3+</sup> -doped optical fiber. <i>Journal of Modern Optics</i> , <b>2013</b> , 60, 674-680	1.1	9
76	Optically induced diffraction gratings based on periodic modulation of linear and nonlinear effects for atom-light coupling quantum systems near plasmonic nanostructures. <i>Scientific Reports</i> , <b>2020</b> , 10, 16684	4.9	9
75	Observation of Optical Bistability in a Polaritonic Material Doped with Nanoparticles. <i>Plasmonics</i> , <b>2017</b> , 12, 1881-1887	2.4	8
74	Optical properties of double cascade-type GaAs/AlGaAs multiple quantum well nanostructures via exciton spin relaxation. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 434, 112-117	2.8	7
73	Polarization dependence of optical bistability in the presence of external magnetic field. <i>Optics Communications</i> , <b>2014</b> , 310, 120-124	2	7
72	Effect of Quantum Interference from Incoherent Pumping Field and Spontaneous Emission on Controlling the Optical Bistability and Multi-Stability. <i>Communications in Theoretical Physics</i> , <b>2013</b> , 59, 199-204	2.4	7
71	Role of incoherent pumping and Er <sup>3+</sup> ion concentration on subluminal and superluminal light propagation in Er <sup>3+</sup> -doped YAG crystal. <i>Chinese Physics B</i> , <b>2015</b> , 24, 014204	1.2	6
70	Theoretical Investigation of Light Transmission in a Slab Cavity via Kerr Nonlinearity of Carbon Nanotube Quantum Dot Nanostructure. <i>International Journal of Theoretical Physics</i> , <b>2018</b> , 57, 20-27	1.1	6
69	Optical bistability in a three-level lambda molecule with permanent dipole moments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 3123	1.7	6
68	Phase control of light transmission and reflection based biexciton coherence in a defect dielectric medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 2223-31	1.8	6
67	Coherent Control of the Goos-Hänchen Shifts in a Four-Level N Type Atomic Medium. <i>Communications in Theoretical Physics</i> , <b>2014</b> , 62, 864-870	2.4	6
66	FAR INFRARED PHOTO DETECTOR BASED ON ELECTROMAGNETICALLY INDUCED TRANSPARENCY. <i>International Journal of Modern Physics B</i> , <b>2013</b> , 27, 1350004	1.1	6
65	Plasmon-induced phase grating via nonlinear modulation. <i>Optics Communications</i> , <b>2018</b> , 421, 125-133	2	5
64	Concentration of Er <sup>3+</sup> ion effect on optical bistability and multistability in Er <sup>3+</sup> : YAG crystal. <i>European Physical Journal Plus</i> , <b>2014</b> , 129, 1	3.1	5
63	Role of Er <sup>3+</sup> ion concentration and incoherent pumping field on optical bistability in Er <sup>3+</sup> :YAG crystal. <i>Optics Communications</i> , <b>2014</b> , 331, 98-104	2	5
62	Enhancement of Optical Delay in a Monolayer Graphene System Under an External Magnetic Field. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2016</b> , 11, 762-768	1.3	5

61	Strongly confined atomic localization by Rydberg coherent population trapping. <i>Optics Letters</i> , <b>2020</b> , 45, 5440-5443	3	5
60	Swapping of orbital angular momentum states of light in a quantum well waveguide. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	5
59	Exchange of optical vortices in symmetry-broken quantum systems. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	5
58	Optical bistability in reflection of the laser pulse in a 1D photonic crystal doped with four-level InGaN/GaN quantum dots. <i>Laser Physics</i> , <b>2021</b> , 31, 036202	1.2	5
57	Polarized control of probe absorption in a single-layer graphene nanostructure system. <i>Laser Physics</i> , <b>2016</b> , 26, 025205	1.2	4
56	Optical Bistability and Multistability in an EIT Medium with Two-Photon Resonance Transitions. <i>International Journal of Theoretical Physics</i> , <b>2014</b> , 53, 1263-1270	1.1	4
55	Transient absorption dispersion properties of four-level atomic system via elliptically polarized probe light and magnetic field. <i>Optik</i> , <b>2014</b> , 125, 1558-1561	2.5	4
54	Laser polarization dependent and magnetically control of group velocity in a dielectric medium doped with nanodiamond nitrogen vacancy centers. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 436, 233-238	2.8	4
53	Azimuthal modulation of electromagnetically induced grating using structured light. <i>Scientific Reports</i> , <b>2021</b> , 11, 20721	4.9	4
52	Optical bistability and multistability in a four-level quantum system in the presence of plasmonic nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2016</b> , 75, 112-117	3	3
51	Manipulation of pulse propagation in a four-level quantum system via an elliptically polarized light in the presence of external magnetic field. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 1550185	1.6	3
50	Plasmonic nanostructure induced simultaneous slow and fast light propagation in a slab doped by four-level quantum dots. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2016</b> , 25, 1650031	0.8	3
49	Spin coherence control of optical bistability via light hole transition in multiple quantum well waveguide embedded in a dielectric medium. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2016</b> , 25, 1650035	0.8	3
48	Superluminal light propagation in a monolayer graphene system under external magnetic field. <i>Optik</i> , <b>2016</b> , 127, 8436-8442	2.5	3
47	All-optical switching between optical bistability and multistability in a defect dielectric medium doped with a multiple quantum well nanostructure. <i>Applied Optics</i> , <b>2016</b> , 55, 722-7	0.2	3
46	Optical bistability and multistability in a parametric region. <i>Optical and Quantum Electronics</i> , <b>2014</b> , 46, 709-718	2.4	3
45	Transmission and reflection properties of propagated pulse through defect slab based biexciton coherence. <i>Optics Communications</i> , <b>2014</b> , 333, 226-231	2	3
44	Comparison of optical properties between ladder and lambda-type EIT medium with Er <sup>3+</sup> ion concentration in Er <sup>3+</sup> :YAG crystal. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3578-3585	2.1	3

- 43 Giant Goos-Hänchen Shifts in Polaritonic Materials Doped with Nanoparticles. *Plasmonics*, **2017**, 12, 849-854 3
- 42 LASING WITH AND WITHOUT POPULATION INVERSION IN A QUANTUM DOT NANOSTRUCTURE VIA AN INCOHERENT PUMPING FIELD. *International Journal of Modern Physics B*, **2012**, 26, 1250094 1.1 3
- 41 Optical bistability in a defect slab with a negative refractive quantum dot nanostructure. *JETP Letters*, **2016**, 104, 666-673 1.2 2
- 40 Double-dark-resonance-enhanced Kerr nonlinearity in a single layer of graphene nanostructure. *European Physical Journal Plus*, **2016**, 131, 1 3.1 2
- 39 Optical bistability and multistability via double dark resonance in graphene nanostructure. *Chinese Physics B*, **2016**, 25, 064201 1.2 2
- 38 Anomalous dispersion via coherent field in an InGaN/GaN quantum dot nanostructure. *Modern Physics Letters B*, **2016**, 30, 1650020 1.6 2
- 37 Er 3+ ion concentration effect on transient and steady-state behavior in Er 3+ :YAG crystal. *Chinese Physics B*, **2014**, 23, 104223 1.2 2
- 36 Long wavelength superluminal pulse propagation in a defect slab doped with GaAs/AlGaAs multiple quantum well nanostructure. *Modern Physics Letters B*, **2015**, 29, 1550216 1.6 2
- 35 Tunable phase control of slow and fast light propagation in a slab doped by four-level quantum dot nanostructure. *Modern Physics Letters B*, **2015**, 29, 1550231 1.6 2
- 34 Long wavelength enhanced Kerr nonlinearity via Fano-type interference in semiconductor quantum wells **2012**, 1, 1-6 2
- 33 Optical properties of four level medium via spontaneously generated coherence. *Optik*, **2013**, 124, 2305-2308 2
- 32 Optomechanically induced grating. *Optics Express*, **2021**, 29, 42306 3.3 2
- 31 Optical bistability and multistability in a defect slab doped by GaAs/AlGaAs multiple quantum wells. *Chinese Physics B*, **2016**, 25, 054208 1.2 2
- 30 Incoherent control of optical bistability in an InGaN/GaN quantum dot nanostructure. *Chinese Journal of Physics*, **2017**, 55, 423-431 3.5 1
- 29 Absorption and dispersion management of near-infrared probe light in the carbon nanotube quantum dot nanostructure with spin-orbit coupling. *Modern Physics Letters B*, **2017**, 31, 1750322 1.6 1
- 28 Bistable behaviors of weak probe light via coherent and incoherent fields. *Canadian Journal of Physics*, **2015**, 93, 1106-1111 1.1 1
- 27 Infrared control of slow light in a slab doped by InGaN/GaN quantum dot nanostructure. *Modern Physics Letters B*, **2015**, 29, 1550012 1.6 1
- 26 Phase control of group velocity of light in an InGaN/GaN quantum dot nanostructure. *Quantum Electronics*, **2015**, 45, 837-843 1.8 1

25	The gain amplification via spontaneously generated coherence with incoherent pump field: A comparison of optical properties between open and closed four level systems. <i>Optik</i> , <b>2015</b> , 126, 5182-5187	2.5	1
24	Controlling of group velocity via terahertz signal radiation in a defect medium doped by four-level InGaN/GaN quantum dot nanostructure. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 1550104	1.6	1
23	Managing optical bistability and multistability by embedding quantum dot nanostructures in a photonic crystal. <i>European Physical Journal Plus</i> , <b>2016</b> , 131, 1	3.1	1
22	Multipoint control of optical bistability in a defect slab doped with single-layer of graphene nanostructure. <i>Optik</i> , <b>2016</b> , 127, 8857-8863	2.5	1
21	Influence of Fano interference and incoherent processes on optical bistability in a four-level quantum dot nanostructure. <i>Chinese Physics B</i> , <b>2016</b> , 25, 034205	1.2	1
20	Roles of Atomic Injection Rate and External Magnetic Field on Optical Properties of Elliptical Polarized Probe Light. <i>Communications in Theoretical Physics</i> , <b>2016</b> , 65, 57-65	2.4	1
19	Phase control of group-velocity-based biexciton coherence in a multiple quantum well nanostructure. <i>Chinese Physics B</i> , <b>2014</b> , 23, 104205	1.2	1
18	Impact of incoherent pumping field and Er <sup>3+</sup> -ion concentration on group velocity and index of refraction in an Er <sup>3+</sup> -doped YAG crystal. <i>Laser Physics</i> , <b>2015</b> , 25, 035201	1.2	1
17	Phase control of optical bistability in an InGaN/GaN quantum dot nanostructure. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 1550083	1.6	1
16	All-Optical Switching between Optical Bistability and Multistability via Exciton Spin Relaxation. <i>Communications in Theoretical Physics</i> , <b>2015</b> , 63, 71-76	2.4	1
15	Enhanced Kerr nonlinearity with nonlinear amplification based biexciton coherence. <i>European Physical Journal Plus</i> , <b>2015</b> , 130, 1	3.1	1
14	Enhanced Kerr nonlinearity in a quantized four-level graphene nanostructure. <i>Chinese Physics B</i> , <b>2016</b> , 25, 074204	1.2	1
13	Manipulating transmission and reflection properties of a photonic crystal doped with quantum dot nanostructures. <i>Journal of Experimental and Theoretical Physics</i> , <b>2016</b> , 123, 957-962	1	1
12	Dipole-dipole-induced giant Goos-Hänchen shift in a photonic crystal doped with quantum dot nanostructures. <i>European Physical Journal Plus</i> , <b>2016</b> , 131, 1	3.1	0
11	Plasmonic structure induced giant Goos-Hänchen shifts in a four-level quantum system. <i>Chinese Journal of Physics</i> , <b>2016</b> , 54, 651-658	3.5	0
10	Optical properties of an open three-level atomic system via coherent and incoherent fields. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 1133-1146	2.4	0
9	Phase control of Goos-Hänchen shifts in a four-level quantum dot nanostructure. <i>Chinese Journal of Physics</i> , <b>2017</b> , 55, 96-104	3.5	0
8	Controllable atom-photon entanglement via quantum interference near plasmonic nanostructure.. <i>Scientific Reports</i> , <b>2022</b> , 12, 677	4.9	0

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|---|---|-----|---|
| 7 | Optical properties of $^{87}\text{Rb}$ atomic vapor near the 1D photonic crystal bandgap and all-optical switching of transmitted light. <i>Physica Scripta</i> , <b>2022</b> , 97, 035503              | 2.6 | ○ |
| 6 | Tunable magneto-optical Faraday rotation with a five-level atomic system near the plasmonic nanostructure. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2021</b> , 38, 1892 | 1.7 | ○ |
| 5 | Slow and fast light propagation in a triple quantum well nanostructure. <i>Laser Physics</i> , <b>2016</b> , 26, 025204   | 1.2 |   |
| 4 | Incoherent control of Goos-Hänchen shifts in a four-level InGaN/GaN quantum dot nanostructure. <i>Laser Physics</i> , <b>2016</b> , 26, 045202  | 1.2 |   |
| 3 | Simultaneous slow and fast light transmission-reflection with amplification in a defect slab via exciton spin relaxation. <i>Laser Physics</i> , <b>2014</b> , 24, 125202                               | 1.2 |   |
| 2 | Transient and steady-state behavior of single and two-photon absorption by microwave driven field. <i>Canadian Journal of Physics</i> , <b>2014</b> , 92, 284-288                                       | 1.1 |   |
| 1 | Influence of incoherent pumping field on spatial evolution of gain without inversion in a four-level quantum dot nanostructure. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 473, 101-106         | 2.8 |   |