

Solange B Cavalcanti

List of Publications by Year in descending order

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105
papers

1,172
citations

471061

17
h-index

433756

31
g-index

106
all docs

106
docs citations

106
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation instability in the region of minimum group-velocity dispersion of single-mode optical fibers via an extended nonlinear Schrödinger equation. <i>Physical Review A</i> , 1991, 43, 6162-6165.	1.0	157
2	A variational approach of nonlinear dissipative pulse propagation. <i>European Physical Journal D</i> , 1998, 1, 313-316.	0.6	79
3	Modulational instability in semiconductor-doped glass fibers with saturable nonlinearity. <i>Optics Letters</i> , 1993, 18, 182.	1.7	61
4	Noise amplification in dispersive nonlinear media. <i>Physical Review A</i> , 1995, 51, 4086-4092.	1.0	51
5	Driving-Dependent Damping of Rabi Oscillations in Two-Level Semiconductor Systems. <i>Physical Review Letters</i> , 2008, 100, 017401.	2.9	51
6	Plasmon polaritons in photonic superlattices containing a left-handed material. <i>Europhysics Letters</i> , 2009, 88, 24002.	0.7	44
7	Suppression of Anderson localization of light and Brewster anomalies in disordered superlattices containing a dispersive metamaterial. <i>Physical Review B</i> , 2010, 82, .	1.1	39
8	Photonic band structure and symmetry properties of electromagnetic modes in photonic crystals. <i>Physical Review E</i> , 2007, 75, 026607.	0.8	36
9	Band edge states of the ψ of Fibonacci photonic lattices. <i>Physical Review A</i> , 2008, 78, .	1.1	31
10	Light propagation and Anderson localization in disordered superlattices containing dispersive metamaterials: Effects of correlated disorder. <i>Physical Review B</i> , 2011, 84, .	1.1	30
11	Resonant Zener tunneling in two-dimensional periodic photonic lattices. <i>Optics Letters</i> , 2007, 32, 325.	1.7	28
12	Plasmon polaritons in photonic metamaterial Fibonacci superlattices. <i>Physical Review B</i> , 2010, 81, .	1.1	25
13	Magnetization in a quenched random-bond transverse Ising model with competing interactions. <i>Physical Review B</i> , 1987, 36, 529-535.	1.1	24
14	Band structure and band-gap control in photonic superlattices. <i>Physical Review B</i> , 2006, 74, .	1.1	23
15	Plasmon polariton and χ^2 gaps in superlattices with metamaterials. <i>Physical Review B</i> , 2011, 83, .	1.1	20
16	Photonic band structure evolution of a honeycomb lattice in the presence of an external magnetic field. <i>Journal of Applied Physics</i> , 2009, 105, 034303.	1.1	18
17	Space-time break-up in the self-focusing of ultrashort pulses. <i>Optics Communications</i> , 1999, 169, 199-205.	1.0	17
18	Zener tunneling in two-dimensional photonic lattices. <i>Physical Review E</i> , 2006, 74, 056602.	0.8	17

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19	Fock-state dynamics in Raman photoassociation of Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	16
20	Plasmon polaritons in photonic metamaterial superlattices: Absorption effects. Physical Review E, 2010, 81, 047601.	0.8	15
21	Conditional Talbot effect using a quantum two-photon state. Physical Review A, 2008, 78, .	1.0	14
22	Anderson localization and Brewster anomalies in photonic disordered quasiperiodic lattices. Physical Review E, 2011, 84, 036604.	0.8	14
23	Bragg-induced power oscillations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric periodic photonic structures. Physical Review A, 2017, 96, .	1.0	14
24	Scattering of partially coherent radiation by non-Hermitian localized structures having parity-time symmetry. Physical Review A, 2019, 100, .	1.0	14
25	Modulation instability of ultrashort pulses via a generalized nonlinear Schrödinger equation with deviating argument. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 276-280.	0.9	13
26	In-reservoir coherent control of an atom-photon bound state. Physical Review A, 2005, 72, .	1.0	13
27	Magnetically induced hole-hole correlations in CuO ₂ sheets. Physical Review B, 1992, 45, 8021-8025.	1.1	11
28	Soliton propagation in a medium with Kerr nonlinearity and resonant impurities: A variational approach. Physical Review E, 2003, 67, 046615.	0.8	10
29	Bulk plasmon polariton-gap soliton-induced transparency in one-dimensional Kerr-metamaterial superlattices. Optics Letters, 2014, 39, 178.	1.7	10
30	Solitons in tunnel-coupled repulsive and attractive condensates. Physical Review A, 2004, 69, .	1.0	9
31	Master equation for structured reservoirs. Photonics and Nanostructures - Fundamentals and Applications, 2005, 3, 38-57.	1.0	9
32	Unfolding of plasmon-polariton modes in one-dimensional layered systems containing anisotropic left-handed materials. Physical Review B, 2011, 84, .	1.1	9
33	Suppression of Anderson localization of light in one-dimensional disordered photonic superlattices. Physical Review B, 2012, 85, .	1.1	9
34	Topological charge identification of partially coherent light diffracted by a triangular aperture. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 4013-4017.	0.9	9
35	Defect modes in metamaterial photonic superlattices as tunneling resonances in trilayer structures. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 468.	0.9	9
36	Non-Hermitian spectral changes in the scattering of partially coherent radiation by aperiodic structures. Optics Letters, 2019, 44, 4363.	1.7	9

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37	Soliton interaction in a nonlinear waveguide in the presence of resonances. <i>Physical Review E</i> , 2001, 64, 016610.	0.8	8
38	Coherent interaction effects in pulses propagating through a doped nonlinear dispersive medium. <i>Physical Review E</i> , 2002, 65, 036617.	0.8	8
39	Energy barrier for collapse in a pair of tunnel-coupled condensates with scattering lengths of opposite signs. <i>Physical Review A</i> , 2005, 71, .	1.0	8
40	The collective operator method for realistic photonic crystals. <i>Laser Physics Letters</i> , 2006, 3, 327-344.	0.6	8
41	Finite-dimensional model for the condensate tunnelling in an accelerating optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 1997-2011.	0.6	8
42	Non-Markovian damping of Rabi oscillations in semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 055801.	0.7	8
43	Absorption effects on plasmon polaritons in quasiperiodic photonic superlattices containing a metamaterial. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 385901.	0.7	8
44	Plasmon polaritons in 1D Cantor-like fractal photonic superlattices containing a left-handed material. <i>Europhysics Letters</i> , 2011, 95, 24004.	0.7	8
45	Slow light in semiconductor quantum dots: Effects of non-Markovianity and correlation of dephasing reservoirs. <i>Physical Review B</i> , 2015, 92, .	1.1	8
46	Restoring the Heisenberg limit via collective non-Markovian dephasing. <i>Physical Review A</i> , 2018, 98, .	1.0	8
47	Theory of incoherent self-phase modulation of non-stationary pulses. <i>New Journal of Physics</i> , 2002, 4, 19-19.	1.2	7
48	Master equation for structured reservoirs. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2004, 2, 161-174.	1.0	7
49	Field-emitter bound states in structured thermal reservoirs. <i>Physical Review A</i> , 2007, 75, .	1.0	7
50	Spontaneous emission and qubit transfer in spin-1/2 chains. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 095506.	0.6	7
51	Optical spin-to-orbital plasmonic angular momentum conversion in subwavelength apertures. <i>Optics Letters</i> , 2013, 38, 920.	1.7	7
52	Non-Bragg-gap solitons in one-dimensional Kerr-metamaterial Fibonacci heterostructures. <i>Physical Review E</i> , 2015, 91, 063205.	0.8	7
53	Field profiles of bulk plasmon polariton modes in layered systems containing a metamaterial. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 045302.	0.7	6
54	Signature of bulk longitudinal plasmon-polaritons in the transmission/reflection spectra of one-dimensional metamaterial heterostructures. <i>Superlattices and Microstructures</i> , 2013, 64, 590-600.	1.4	6

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55	Metric-signature topological transitions in dispersive metamaterials. <i>Physical Review E</i> , 2014, 89, 033202.	0.8	6
56	Women and physics in Brazil: Publications, citations and H index. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	5
57	Absorption effects on plasmon polariton-gap solitons in Kerr/metamaterial superlattices. <i>Europhysics Letters</i> , 2014, 106, 64001.	0.7	5
58	Localized modes in $\mathbb{Z}(2)$ media with non-PT-symmetric complex localized potentials. <i>Physical Review A</i> , 2016, 94, .	1.0	5
59	Optical solitons in a saturable nonlinear medium in the presence of an asymmetric complex potential. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3496.	0.9	5
60	Magnetically driven pair potential in CuO ₂ sheets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 162, 497-500.	0.9	4
61	Stationary states in a system of two linearly coupled 2D NLS equations with nonlinearities of opposite signs. <i>Journal of Physics A</i> , 2005, 38, 6917-6938.	1.6	4
62	Gap soliton transparency switching in one-dimensional Kerr-metamaterial superlattices. <i>Superlattices and Microstructures</i> , 2017, 112, 442-450.	1.4	4
63	Markovian and non-Markovian decay in pseudo-gaps. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007, 5, 1-13.	1.0	3
64	Rabi oscillation damping of two-level states in quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1487-1489.	1.3	3
65	Low coherence-induced resonance in double-layer structures having parity-time symmetry. <i>Optics Letters</i> , 2021, 46, 717.	1.7	3
66	The bond-diluted interface between semi-infinite Potts bulks: criticality. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 6799-6809.	1.5	2
67	Absence of phase separation in the frustration-induced hole-interaction mechanism. <i>Physical Review B</i> , 1992, 46, 6607-6610.	1.1	2
68	The Electron Localization Problem Via a Local Functional Integral Approach. <i>Modern Physics Letters B</i> , 1998, 12, 301-308.	1.0	2
69	<title>Multimode theory for the Zeno effect in parametric down-conversion</title>. , 1999, 3749, 796.		2
70	Periodic waves and solitons in a nonlinear fibre with resonant impurities. <i>Journal of Modern Optics</i> , 2002, 49, 2183-2193.	0.6	2
71	Omnidirectional suppression of Anderson localization of light in disordered one-dimensional photonic superlattices. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 075901.	0.7	2
72	Zero- \hbar eff non-Bragg gap solitons in 1D Kerr polaritonic/metamaterial heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 461-465.	1.3	2

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73	Effect of nonlinearity on the dynamics of Bragg-induced optical Rabi oscillations in a one-dimensional periodic photonic structure. <i>Optics Communications</i> , 2017, 400, 34-37.	1.0	2
74	Nonparaxial electromagnetic Bragg scattering in periodic media with PT symmetry. <i>Superlattices and Microstructures</i> , 2019, 130, 416-427.	1.4	2
75	Magnetization in a quenched random-bond transverse Ising model with competing interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 683-684.	1.0	1
76	Hole-hole correlations induced by magnetic frustration. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 587-588.	1.0	1
77	Control of soliton interaction in a coherently excited three-level system embedded in a nonlinear waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 492.	0.9	1
78	Band-edge states of the zeroth-order gap in quasi-periodic photonic superlattices. , 2008, , .		1
79	Bulk-plasmon polaritons in metamaterialâ€“metamaterial one-dimensional photonic superlattices. <i>Superlattices and Microstructures</i> , 2013, 54, 96-106.	1.4	1
80	Absorption effects on the longitudinal bulk plasmonâ€“polariton modes in 1D heterostructures containing anisotropic metamaterials. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 123-128.	1.3	1
81	Soliton-induced transparency in disordered Kerr-metamaterial heterostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 320.	0.9	1
82	Localization properties of photonic modes in disordered nonlinear-Kerr/metamaterial heterostructures. <i>Superlattices and Microstructures</i> , 2016, 90, 1-7.	1.4	1
83	Negative refraction and rotons in the relativistic Bose gas. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 812, 136003.	1.5	1
84	Linear and nonlinear plasmon polariton defect modes in a finite heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114584.	1.3	1
85	Soliton propagation in the vicinity of a two-photon resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 247, 294-296.	0.9	0
86	<title>Self-phase modulation of incoherent nonstationary pulses</title>. , 1999, , .		0
87	Parametric amplification and break-up of a high order soliton in a nonlinear coherent driven medium. , 0, , .		0
88	Coherent soliton propagation through doped optical fibers: cloning, breakup, and soliton interactions. <i>Anais Da Academia Brasileira De Ciencias</i> , 2001, 73, 197-209.	0.3	0
89	<title>Coherent soliton propagation in a mixture of two-level atoms</title>. , 2004, , .		0
90	Zener Tunnelling in Periodic Two-Dimensional Photonic Lattices with Three-fold Symmetry. , 2007, , .		0

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91	Resonant Zener tunnelling in triangular two-dimensional photonic lattices. , 2007, , .		0
92	A taste of photonics: band structure, null gaps, non-Bragg gaps, and symmetry properties of one-dimensional superlattices. Proceedings of SPIE, 2007, , .	0.8	0
93	A bioreactor for electromechanical stress of cells to address towards cardiac phenotype. Journal of Molecular and Cellular Cardiology, 2007, 42, S89.	0.9	0
94	Band-structure properties of photonic superlattices. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	0
95	Entanglement induced by noise: Emitters in thermal bandgap reservoirs. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2141-2143.	1.3	0
96	A 2D honeycomb photonic crystal under applied magnetic fields. Proceedings of SPIE, 2008, , .	0.8	0
97	An analogy between state transfer in spin chains and spontaneous emission. , 2010, , .		0
98	Dynamical manipulation of quadratic non-linearity photonic crystal gap solitons through thermo-optic induced index modulations. , 2011, , .		0
99	Metamaterials can suppress Anderson localization of light in one dimension. Proceedings of SPIE, 2012, , .	0.8	0
100	Plasmon-polariton and $\hat{\epsilon} = 0$ non-Bragg gaps in 1D Cantor photonic superlattices. , 2014, , .		0
101	Bragg-induced oscillations in non-PT complex photonic lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2672-2677.	0.9	0
102	Parallel Algorithm for Beam Propagation Problems. , 2000, , .		0
103	Precursos log-periódicos de eventos catastróficos: a quebra de 1999 como exemplo ilustrativo. Revista Brasileira De Ensino De Física, 2008, 30, .	0.0	0
104	On the Photonic Dispersion of Periodic Superlattices Made of Left-Handed Materials. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 193-207.	0.2	0
105	Bragg-induced Power Oscillations in PT-Symmetric Periodic Photonic Structures. , 2018, , .		0