

# 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	Negative refraction and rotons in the relativistic Bose gas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 136003.	1.5	1
2	Linear and nonlinear plasmon polariton defect modes in a finite heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114584.	1.3	1
3	Low coherence-induced resonance in double-layer structures having parity-time symmetry. Optics Letters, 2021, 46, 717.	1.7	3
4	Optical solitons in a saturable nonlinear medium in the presence of an asymmetric complex potential. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3496.	0.9	5
5	Scattering of partially coherent radiation by non-Hermitian localized structures having parity-time symmetry. Physical Review A, 2019, 100, .	1.0	14
6	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
7	Nonparaxial electromagnetic Bragg scattering in periodic media with PT symmetry. Superlattices and Microstructures, 2019, 130, 416-427.	1.4	2
8	Non-Hermitian spectral changes in the scattering of partially coherent radiation by periodic structures. Optics Letters, 2019, 44, 4363.	1.7	9
9	Restoring the Heisenberg limit via collective non-Markovian dephasing. Physical Review A, 2018, 98, .	1.0	8
10	Bragg-induced Power Oscillations in PT-Symmetric Periodic Photonic Structures. , 2018, , .		0
11	Effect of nonlinearity on the dynamics of Bragg-induced optical Rabi oscillations in a one-dimensional periodic photonic structure. Optics Communications, 2017, 400, 34-37.	1.0	2
12	Gap soliton transparency switching in one-dimensional Kerr-metamaterial superlattices. Superlattices and Microstructures, 2017, 112, 442-450.	1.4	4
13	Bragg-induced power oscillations in $PT$ -symmetric periodic photonic structures. Physical Review A, 2017, 96, .	1.0	14
14	Soliton-induced transparency in disordered Kerr-metamaterial heterostructures. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 320.	0.9	1
15	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
16	Localized modes in $(2+1)$ media with non-PT-symmetric complex localized potentials. Physical Review A, 2016, 94, .	1.0	5
17	Localization properties of photonic modes in disordered nonlinear-Kerr/metamaterial heterostructures. Superlattices and Microstructures, 2016, 90, 1-7.	1.4	1
18	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

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19	Zero- $\hbar$ -eff non-Bragg gap solitons in 1D Kerr polaritonic/metamaterial heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 461-465.	1.3	2
20	Slow light in semiconductor quantum dots: Effects of non-Markovianity and correlation of dephasing reservoirs. Physical Review B, 2015, 92, .	1.1	8
21	Non-Bragg-gap solitons in one-dimensional Kerr-metamaterial Fibonacci heterostructures. Physical Review E, 2015, 91, 063205.	0.8	7
22	Absorption effects on the longitudinal bulk plasmon-polariton modes in 1D heterostructures containing anisotropic metamaterials. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 123-128.	1.3	1
23	Plasmon-polariton and $\hbar = 0$ non-Bragg gaps in 1D Cantor photonic superlattices. , 2014, , .		0
24	Bulk plasmon polariton-gap soliton-induced transparency in one-dimensional Kerr-metamaterial superlattices. Optics Letters, 2014, 39, 178.	1.7	10
25	Metric-signature topological transitions in dispersive metamaterials. Physical Review E, 2014, 89, 033202.	0.8	6
26	Absorption effects on plasmon polariton-gap solitons in Kerr/metamaterial superlattices. Europhysics Letters, 2014, 106, 64001.	0.7	5
27	Bulk-plasmon polaritons in metamaterial-metamaterial one-dimensional photonic superlattices. Superlattices and Microstructures, 2013, 54, 96-106.	1.4	1
28	Signature of bulk longitudinal plasmon-polaritons in the transmission/reflection spectra of one-dimensional metamaterial heterostructures. Superlattices and Microstructures, 2013, 64, 590-600.	1.4	6
29	Women and physics in Brazil: Publications, citations and H index. AIP Conference Proceedings, 2013, , .	0.3	5
30	Optical spin-to-orbital plasmonic angular momentum conversion in subwavelength apertures. Optics Letters, 2013, 38, 920.	1.7	7
31	Omnidirectional suppression of Anderson localization of light in disordered one-dimensional photonic superlattices. Journal of Physics Condensed Matter, 2013, 25, 075901.	0.7	2
32	Metamaterials can suppress Anderson localization of light in one dimension. Proceedings of SPIE, 2012, , .	0.8	0
33	Suppression of Anderson localization of light in one-dimensional disordered photonic superlattices. Physical Review B, 2012, 85, .	1.1	9
34	Field profiles of bulk plasmon polariton modes in layered systems containing a metamaterial. Journal of Physics Condensed Matter, 2012, 24, 045302.	0.7	6
35	Anderson localization and Brewster anomalies in photonic disordered quasiperiodic lattices. Physical Review E, 2011, 84, 036604.	0.8	14
36	Dynamical manipulation of quadratic non-linearity photonic crystal gap solitons through thermo-optic induced index modulations. , 2011, , .		0

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37	Plasmon polaritons in 1D Cantor-like fractal photonic superlattices containing a left-handed material. Europhysics Letters, 2011, 95, 24004.	0.7	8
38	Light propagation and Anderson localization in disordered superlattices containing dispersive metamaterials: Effects of correlated disorder. Physical Review B, 2011, 84, .	1.1	30
39	Plasmon polariton and $\alpha$ gaps in superlattices with metamaterials. Physical Review B, 2011, 83, .	1.1	20
40	Unfolding of plasmon-polariton modes in one-dimensional layered systems containing anisotropic left-handed materials. Physical Review B, 2011, 84, .	1.1	9
41	An analogy between state transfer in spin chains and spontaneous emission. , 2010, , .		0
42	Plasmon polaritons in photonic metamaterial Fibonacci superlattices. Physical Review B, 2010, 81, .	1.1	25
43	Plasmon polaritons in photonic metamaterial superlattices: Absorption effects. Physical Review E, 2010, 81, 047601.	0.8	15
44	Absorption effects on plasmon polaritons in quasiperiodic photonic superlattices containing a metamaterial. Journal of Physics Condensed Matter, 2010, 22, 385901.	0.7	8
45	Suppression of Anderson localization of light and Brewster anomalies in disordered superlattices containing a dispersive metamaterial. Physical Review B, 2010, 82, .	1.1	39
46	Spontaneous emission and qubit transfer in spin-1/2 chains. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095506.	0.6	7
47	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
48	Plasmon polaritons in photonic superlattices containing a left-handed material. Europhysics Letters, 2009, 88, 24002.	0.7	44
49	Photonic band structure evolution of a honeycomb lattice in the presence of an external magnetic field. Journal of Applied Physics, 2009, 105, 034303.	1.1	18
50	Non-Markovian damping of Rabi oscillations in semiconductor quantum dots. Journal of Physics Condensed Matter, 2009, 21, 055801.	0.7	8
51	Rabi oscillation damping of two-level states in quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1487-1489.	1.3	3
52	Entanglement induced by noise: Emitters in thermal bandgap reservoirs. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2141-2143.	1.3	0
53	Band edge states of the $\alpha$ of Fibonacci photonic lattices. Physical Review A, 2008, 78, .	1.1	31
54	Driving-Dependent Damping of Rabi Oscillations in Two-Level Semiconductor Systems. Physical Review Letters, 2008, 100, 017401.	2.9	51

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55	A 2D honeycomb photonic crystal under applied magnetic fields. Proceedings of SPIE, 2008, , .	0.8	0
56	Conditional Talbot effect using a quantum two-photon state. Physical Review A, 2008, 78, .	1.0	14
57	Band-edge states of the zeroth-order gap in quasi-periodic photonic superlattices. , 2008, , .		1
58	Precursores log-periódicos de eventos catastróficos: a quebra de 1999 como exemplo ilustrativo. Revista Brasileira De Ensino De Fisica, 2008, 30, .	0.0	0
59	Zener Tunnelling in Periodic Two-Dimensional Photonic Lattices with Three-fold Symmetry. , 2007, , .		0
60	Resonant Zener tunnelling in triangular two-dimensional photonic lattices. , 2007, , .		0
61	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
62	A bioreactor for electromechanical stress of cells to address towards cardiac phenotype. Journal of Molecular and Cellular Cardiology, 2007, 42, S89.	0.9	0
63	Field-emitter bound states in structured thermal reservoirs. Physical Review A, 2007, 75, .	1.0	7
64	Resonant Zener tunneling in two-dimensional periodic photonic lattices. Optics Letters, 2007, 32, 325.	1.7	28
65	Markovian and non-Markovian decay in pseudo-gaps. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 1-13.	1.0	3
66	Band-structure properties of photonic superlattices. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	0
67	Photonic band structure and symmetry properties of electromagnetic modes in photonic crystals. Physical Review E, 2007, 75, 026607.	0.8	36
68	Band structure and band-gap control in photonic superlattices. Physical Review B, 2006, 74, .	1.1	23
69	The collective operator method for realistic photonic crystals. Laser Physics Letters, 2006, 3, 327-344.	0.6	8
70	Finite-dimensional model for the condensate tunnelling in an accelerating optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1997-2011.	0.6	8
71	Zener tunneling in two-dimensional photonic lattices. Physical Review E, 2006, 74, 056602.	0.8	17
72	Master equation for structured reservoirs. Photonics and Nanostructures - Fundamentals and Applications, 2005, 3, 38-57.	1.0	9

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73	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
74	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
75	In-reservoir coherent control of an atom-photon bound state. <i>Physical Review A</i> , 2005, 72, .	1.0	13
76	Solitons in tunnel-coupled repulsive and attractive condensates. <i>Physical Review A</i> , 2004, 69, .	1.0	9
77	Fock-state dynamics in Raman photoassociation of Bose-Einstein condensates. <i>Physical Review A</i> , 2004, 70, .	1.0	16
78	Master equation for structured reservoirs. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2004, 2, 161-174.	1.0	7
79	<title>Coherent soliton propagation in a mixture of two-level atoms</title>. , 2004, , .		0
80	Soliton propagation in a medium with Kerr nonlinearity and resonant impurities: A variational approach. <i>Physical Review E</i> , 2003, 67, 046615.	0.8	10
81	Coherent interaction effects in pulses propagating through a doped nonlinear dispersive medium. <i>Physical Review E</i> , 2002, 65, 036617.	0.8	8
82	Theory of incoherent self-phase modulation of non-stationary pulses. <i>New Journal of Physics</i> , 2002, 4, 19-19.	1.2	7
83	Periodic waves and solitons in a nonlinear fibre with resonant impurities. <i>Journal of Modern Optics</i> , 2002, 49, 2183-2193.	0.6	2
84	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
85	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
86	Soliton interaction in a nonlinear waveguide in the presence of resonances. <i>Physical Review E</i> , 2001, 64, 016610.	0.8	8
87	Parallel Algorithm for Beam Propagation Problems. , 2000, , .		0
88	Space-time break-up in the self-focusing of ultrashort pulses. <i>Optics Communications</i> , 1999, 169, 199-205.	1.0	17
89	<title>Self-phase modulation of incoherent nonstationary pulses</title>. , 1999, , .		0
90	<title>Multimode theory for the Zeno effect in parametric down-conversion</title>. , 1999, 3749, 796.		2

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91	A variational approach of nonlinear dissipative pulse propagation. European Physical Journal D, 1998, 1, 313-316.	0.6	79
92	Soliton propagation in the vicinity of a two-photon resonance. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 247, 294-296.	0.9	0
93	The Electron Localization Problem Via a Local Functional Integral Approach. Modern Physics Letters B, 1998, 12, 301-308.	1.0	2
94	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
95	Noise amplification in dispersive nonlinear media. Physical Review A, 1995, 51, 4086-4092.	1.0	51
96	Modulational instability in semiconductor-doped glass fibers with saturable nonlinearity. Optics Letters, 1993, 18, 182.	1.7	61
97	Absence of phase separation in the frustration-induced hole-interaction mechanism. Physical Review B, 1992, 46, 6607-6610.	1.1	2
98	Magnetically induced hole-hole correlations in CuO <sub>2</sub> sheets. Physical Review B, 1992, 45, 8021-8025.	1.1	11
99	Magnetically driven pair potential in CuO <sub>2</sub> sheets. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 162, 497-500.	0.9	4
100	Hole-hole correlations induced by magnetic frustration. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 587-588.	1.0	1
101	Modulation instability in the region of minimum group-velocity dispersion of single-mode optical fibers via an extended nonlinear Schrödinger equation. Physical Review A, 1991, 43, 6162-6165.	1.0	157
102	Magnetization in a quenched random-bond transverse Ising model with competing interactions. Physical Review B, 1987, 36, 529-535.	1.1	24
103	Magnetization in a quenched random-bond transverse Ising model with competing interactions. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 683-684.	1.0	1
104	The bond-diluted interface between semi-infinite Potts bulks: criticality. Journal of Physics C: Solid State Physics, 1986, 19, 6799-6809.	1.5	2
105	Parametric amplification and break-up of a high order soliton in a nonlinear coherent driven medium. , 0, , .		0