

# Cláudia Gonçalves Rodrigues

## List of Publications by Year in descending order

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57  
papers

433  
citations

566801

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h-index

839053

18  
g-index

57  
all docs

57  
docs citations

57  
times ranked

108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear transport properties of III-nitrides in electric field. Journal of Applied Physics, 2005, 98, 043702.	1.1	24
2	Nonlinear charge transport in III-N semiconductors: Mobility, diffusion, and a generalized Einstein relation. Journal of Applied Physics, 2006, 99, 073701.	1.1	21
3	Nonlinear transport in n-III-nitrides: Selective amplification and emission of coherent LO phonons. Solid State Communications, 2006, 140, 135-140.	0.9	21
4	Urbach's tail in III-nitrides under an electric field. Journal of Applied Physics, 2001, 90, 1879-1882.	1.1	20
5	Evolution kinetics of nonequilibrium longitudinal-optical phonons generated by drifting electrons in III-nitrides: longitudinal-optical-phonon resonance. Journal of Applied Physics, 2010, 108, 033716.	1.1	20
6	Nonlinear transport properties of doped III-N and GaAs polar semiconductors: A comparison. Journal of Applied Physics, 2005, 98, 043703.	1.1	19
7	Non-Linear electron mobility in n-doped III-Nitrides. Brazilian Journal of Physics, 2006, 36, 255.	0.7	19
8	Ultrafast relaxation kinetics of photoinjected plasma in III-nitrides. Journal Physics D: Applied Physics, 2005, 38, 3584-3589.	1.3	18
9	The role of nonequilibrium thermo-mechanical statistics in modern technologies and industrial processes: an overview. Brazilian Journal of Physics, 2010, 40, 63-91.	0.7	18
10	Mesoscopic hydro-thermodynamics of phonons in semiconductors: heat transport in III-nitrides. European Physical Journal B, 2013, 86, 1.	0.6	18
11	Statistical Irreversible Thermodynamics in the Framework of Zubarev's Nonequilibrium Statistical Operator Method. Theoretical and Mathematical Physics(Russian Federation), 2018, 194, 4-29.	0.3	18
12	Nonlinear hole transport and nonequilibrium thermodynamics in group III-nitrides under the influence of electric fields. Journal of Applied Physics, 2007, 102, 073714.	1.1	17
13	Drifting electron excitation of acoustic phonons: Cerenkov-like effect in n-GaN. Journal of Applied Physics, 2013, 113, 113701.	1.1	17
14	Electron mobility in nitride materials. Brazilian Journal of Physics, 2002, 32, 439-441.	0.7	17
15	Electron mobility in n-doped zinc sulphide. Microelectronics Journal, 2006, 37, 657-660.	1.1	15
16	Transient transport in III-nitrides: interplay of momentum and energy relaxation times. Journal of Physics Condensed Matter, 2007, 19, 346214.	0.7	14
17	Thermal conductivity in higher-order generalized hydrodynamics: Characterization of nanowires of silicon and gallium nitride. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 50-58.	1.3	14
18	Higher-order generalized hydrodynamics: Foundations within a nonequilibrium statistical ensemble formalism. Physical Review E, 2015, 91, 063011.	0.8	12

#	ARTICLE	IF	CITATIONS
19	Glucose is an active chemical agent on degradation of hydroxyapatite nanostructure. <i>Materials Chemistry and Physics</i> , 2020, 240, 122166.	2.0	10
20	Theoretical calculations of nonlinear electronic transport behavior in III <sup>+</sup> nitrides: GaN and AlN. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 417-425.	0.7	9
21	Higher-order generalized hydrodynamics of carriers and phonons in semiconductors in the presence of electric fields: Macro to nano. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2802-2819.	0.7	9
22	Non-equilibrium Bose-Einstein-Like Condensation. <i>Advanced Quantum Technologies</i> , 2018, 1, 1800023.	1.8	7
23	Maxwell times in higher-order generalized hydrodynamics: Classical fluids, and carriers and phonons in semiconductors. <i>Physical Review E</i> , 2017, 95, 022104.	0.8	6
24	Immobilization of Paclitaxel on Hydroxyapatite for Breast Cancer Investigations. <i>Langmuir</i> , 2020, 36, 8723-8732.	1.6	6
25	Hot-carrier relaxation in photoinjected ZnSe. <i>Microelectronics Journal</i> , 2007, 38, 24-26.	1.1	5
26	Electron transport in GaN(ZB) and AlN(WZ). <i>Journal of Materials Science</i> , 2007, 42, 396-400.	1.7	5
27	Nonlinear electronic transport behavior in Indium Nitride. <i>Materials Chemistry and Physics</i> , 2012, 137, 317-322.	2.0	5
28	Topics in Present-day Science Technology and Innovation: Ultrafast Relaxation Processes in Semiconductors. <i>Materials Research</i> , 2015, 18, 453-467.	0.6	4
29	The calculated low-energy side of the luminescence spectrum in zinc selenide. <i>Journal of Luminescence</i> , 2018, 199, 450-453.	1.5	4
30	Statistical Mesoscopic Hydro-thermodynamics: the Description of Kinetics and Hydrodynamics of Nonequilibrium Processes in Single Liquids. <i>Brazilian Journal of Physics</i> , 2019, 49, 277-287.	0.7	4
31	Electron transport in bulk n-doped 3C-SiC by using a non-equilibrium quantum kinetic theory. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	4
32	Anisotropic Carrier Transport in n-Doped 6H-SiC. <i>Physics of the Solid State</i> , 2020, 62, 110-115.	0.2	4
33	Nonlinear higher-order hydrodynamics: Fluids under driven flow and shear pressure. <i>Physics of Fluids</i> , 2021, 33, 067111.	1.6	4
34	Anisotropic hole drift velocity in 4H-SiC. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 249, 114426.	1.7	3
35	Nonlinear charge transport in highly polar semiconductors: GaN, AlN, InN and GaAs. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	0.9	3
36	Onset for the Electron Velocity Overshoot in Indium Nitride. <i>Chinese Physics Letters</i> , 2012, 29, 127201.	1.3	2

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37	Response Function Theory for Many-Body Systems Away from Equilibrium: Conditions of Ultrafast-Time and Ultrasmall-Space Experimental Resolution. <i>Brazilian Journal of Physics</i> , 2015, 45, 166-193.	0.7	2
38	Ultrafast Transport Transient in n-Doped ZnS in Wurtzite and Zinblende Phases. <i>Condensed Matter</i> , 2017, 2, 12.	0.8	2
39	Study of Electron Transport in 4H-SiC by Using Nonequilibrium Statistical Ensemble Formalism. <i>Brazilian Journal of Physics</i> , 2019, 49, 494-501.	0.7	2
40	Ultrafast dynamics of carriers and phonons of photoinjected double-plasma in aluminium nitride. <i>Revista Mexicana De Física</i> , 2021, 67, 318-323.	0.2	2
41	Electron Mobility in Bulk n-Doped SiC-Polytypes 3C-SiC, 4H-SiC, and 6H-SiC: A Comparison. <i>Semiconductors</i> , 2021, 55, 625-632.	0.2	2
42	Interatomic correlations moments of atoms in the two-dimensional hexagonal lattice by using Morse and Lenard-Jones potentials. <i>Physica B: Condensed Matter</i> , 2016, 490, 46-48.	1.3	1
43	Nonequilibrium ensemble derivation of hydrodynamic heat transport and higher-order generalizations. <i>Indian Journal of Physics</i> , 0, , 1.	0.9	1
44	Hot carrier dynamics of photoinjected plasma in indium nitride. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	1
45	Complexidade, auto-organização e informação em sistemas dinâmicos. <i>Revista Brasileira De Ensino De Física</i> , 2015, 37, 2314-1-2314-30.	0.2	1
46	Sobre modelagem matemática e formalismos estatísticos de sistemas complexos. <i>Revista Brasileira De Ensino De Física</i> , 0, 42, .	0.2	1
47	A função relativística de distribuição de velocidades de Maxwell-Jüttner. <i>Revista Brasileira De Ensino De Física</i> , 0, 44, .	0.2	1
48	TRANSPORTE DE CARGA ELÉTRICA NO SEMICONDUTOR 4H-SiC DOPADO TIPO p. <i>Interfaces Científicas - Exatas E Tecnológicas</i> , 2020, 4, 144-159.	0.0	1
49	The Melting Curve of Argon by Using Lindemann's Criterion. <i>European Physical Journal D</i> , 2004, 54, 849-856.	0.4	0
50	Caracterização do transporte de portadores de carga no semicondutor Sulfeto de Zinco (ZnS) dopado tipo n. <i>Revista Tecnológica</i> , 2019, 28, 39-50.	0.1	0
51	Extended Navier-Stokes Equations in the Framework of Higher-Order Generalized Hydrodynamics. <i>Brazilian Journal of Physics</i> , 2021, 51, 1904-1915.	0.7	0
52	Comparação entre as Ementas de um Curso de Mecânica Quântica e Física Moderna. <i>Revista Brasileira De Ensino De Física</i> , 2001, 23, 360-365.	0.2	0
53	Estudo do Transporte Eletrônico no Semicondutor Arseneto de Gálio Usando a Equação de Newton-Langevin. <i>Revista Arithmos</i> , 2019, 1, 47.	0.0	0
54	Panorama do mercado global da indústria de semicondutores / Overview of the global semiconductor industry market. <i>Brazilian Journal of Development</i> , 2021, 7, 74936-74944.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Experimentos práticos e didáticos de baixo custo para o ensino de Óptica: reflexo, refração e espelhos planos. Conjeturas, 2022, 22, 916-935.	0.0	0
56	Transporte Eletrônico no Semicondutor Carbetto de Silício na Fase 3C. , 0, 8, .		0
57	Atividades experimentais de baixo custo para o ensino de mecânica. , 2022, 22, 909-932.		0