

# Marcio Daldin Teodoro

## List of Publications by Year in descending order

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54  
papers

549  
citations

687363

13  
h-index

713466

21  
g-index

54  
all docs

54  
docs citations

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times ranked

662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Connecting morphology and photoluminescence emissions in $\hat{\Gamma}^2$ -Ag <sub>2</sub> MoO <sub>4</sub> microcrystals. <i>Ceramics International</i> , 2022, 48, 3740-3750.	4.8	9
2	Tailoring Bi <sub>2</sub> MoO <sub>6</sub> by Eu <sup>3+</sup> incorporation for enhanced photoluminescence emissions. <i>Journal of Luminescence</i> , 2022, 243, 118675.	3.1	9
3	Spin-dependent analysis of homogeneous and inhomogeneous exciton decoherence in magnetic fields. <i>Physical Review B</i> , 2022, 105, .	3.2	0
4	$\hat{\Gamma}^2$ Ag <sub>2</sub> WO <sub>4</sub> under microwave, electron beam and femtosecond laser irradiations: Unveiling the relationship between morphology and photoluminescence emissions. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163840.	5.5	3
5	Diffusion of Photoexcited Holes in a Viscous Electron Fluid. <i>Physical Review Letters</i> , 2022, 128, 136801.	7.8	9
6	YVO <sub>4</sub> :RE (RE = Eu, Tm, and Yb/Er) nanoparticles synthesized by the microwave-assisted hydrothermal method for photoluminescence application. <i>Eletica Quimica</i> , 2022, 47, 39-49.	0.5	2
7	Tuning intrinsic defects in ZnO films by controlling the vacuum annealing temperature: an experimental and theoretical approach. <i>Physica Scripta</i> , 2022, 97, 075811.	2.5	1
8	Cation-exchange mediated synthesis of hydrogen and sodium titanates heterojunction: Theoretical and experimental insights toward photocatalytic mechanism. <i>Applied Surface Science</i> , 2021, 538, 148137.	6.1	25
9	Effect of hydrothermal temperature on the antibacterial and photocatalytic activity of WO <sub>3</sub> decorated with silver nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 97, 228-244.	2.4	8
10	Comparison of $\hat{\Gamma}^2$ (1 $\hat{\Gamma}^2$ 40, 1 $\hat{\Gamma}^2$ 28, 11 $\hat{\Gamma}^2$ 22, and 29 $\hat{\Gamma}^2$ 40) aggregation processes and inhibition of toxic species generated in early stages of aggregation by a water-soluble ruthenium complex. <i>Journal of Inorganic Biochemistry</i> , 2021, 215, 111314.	3.5	7
11	Synthesis, characterization, photocatalytic, and antimicrobial activity of ZrO <sub>2</sub> nanoparticles and Ag@ZrO <sub>2</sub> nanocomposite prepared by the advanced oxidative process/hydrothermal route. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 98, 113-126.	2.4	15
12	Structure, Photoluminescence Emissions, and Photocatalytic Activity of Ag <sub>2</sub> SeO <sub>3</sub> : A Joint Experimental and Theoretical Investigation. <i>Inorganic Chemistry</i> , 2021, 60, 5937-5954.	4.0	10
13	Magnetic and power tuning of spin-asymmetric multiple excitons in a GaAs quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 129, 114599.	2.7	1
14	Spin relaxation of holes in In <sub>0.53</sub> Ga <sub>0.47</sub> As/InP quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 131, 114700.	2.7	1
15	Optical Mapping of Nonequilibrium Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14741-14750.	3.1	7
16	Suppression of vapor-liquid-solid (VLS) mechanism in the growth of $\hat{\Gamma}^2$ -Sb <sub>2</sub> O <sub>4</sub> nanobelts by a vapor-deposition approach. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 106006.	4.0	2
17	Unraveling the relationship between bulk structure and exposed surfaces and its effect on the electronic structure and photoluminescent properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> : A joint experimental and theoretical approach. <i>Materials Research Bulletin</i> , 2021, 143, 111442.	5.2	7
18	Quantitative Correlation Study of Dislocation Generation, Strain Relief, and Sn Outdiffusion in Thermally Annealed GeSn Epilayers. <i>Crystal Growth and Design</i> , 2021, 21, 1666-1673.	3.0	14

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19	Electron-phonon coupling enhancement and displacive magnetostructural transition in SrCr <sub>2</sub> As <sub>2</sub> under magneto-Raman spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 105401.	1.8	2
20	Multi-dimensional architecture of Ag <sub>1-x</sub> Ag <sub>2</sub> WO <sub>4</sub> crystals: insights into microstructural, morphological, and photoluminescence properties. CrystEngComm, 2020, 22, 7903-7917.	2.6	9
21	Insights into the nature of optically active defects of ZnO. Journal of Luminescence, 2020, 227, 117536.	3.1	15
22	Influence of the metastable state ( <i>V<sup>++</sup></i> ) on the electronic properties of SnO <sub>2</sub> nanowires under the influence of light. Journal of Applied Physics, 2020, 128, .	2.5	8
23	Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO <sub>4</sub> : An In-Depth Experimental Investigation and First-Principles Study. Inorganic Chemistry, 2020, 59, 7453-7468.	4.0	24
24	Metallic behavior in STO/LAO heterostructures with non-uniformly atomic interfaces. Materials Today Communications, 2020, 24, 101339.	1.9	1
25	Growth and formation mechanism of shape-selective preparation of ZnO structures: correlation of structural, vibrational and optical properties. Physical Chemistry Chemical Physics, 2020, 22, 7329-7339.	2.8	23
26	Enhanced degradation of the antibiotic sulfamethoxazole by heterogeneous photocatalysis using Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2-x</sub> /TiO <sub>2</sub> particles. Journal of Alloys and Compounds, 2019, 808, 151711.	5.5	25
27	Magnetically controlled exciton transfer in hybrid quantum-dot-quantum-well nanostructures. Physical Review B, 2019, 100, .	3.2	1
28	Role of defects on the enhancement of the photocatalytic response of ZnO nanostructures. Applied Surface Science, 2018, 448, 646-654.	6.1	46
29	Direct preparation of standard functional interfaces in oxide heterostructures for 2DEG analysis through beam-induced platinum contacts. Applied Physics Letters, 2018, 113, .	3.3	2
30	Recombination dynamics of Landau levels in an InGaAs/InP quantum well. Physical Review B, 2018, 98, .	3.2	0
31	Atmosphere-Dependent Photoconductivity of ZnO in the Urbach Tail. International Journal of Photoenergy, 2018, 2018, 1-8.	2.5	9
32	Aharonov-Bohm Effect for Neutral Excitons in Quantum Rings. Nanoscience and Technology, 2018, , 255-280.	1.5	0
33	Photocurrent enhancement and magnetoresistance in indium phosphide single nanowire by zinc doping. Journal Physics D: Applied Physics, 2018, 51, 255106.	2.8	2
34	Electroluminescence on-off ratio control of $\text{GaAs/AlGaAs}$ -based resonant tunneling structures. Physical Review B, 2018, 98, .	3.2	6
35	Investigation of trapping levels in p-type Zn <sub>3</sub> P <sub>2</sub> nanowires using transport and optical properties. Applied Physics Letters, 2018, 112, 193103.	3.3	12
36	Recombination kinetics of photogenerated electrons in InGaAs/InP quantum wells. Journal of Applied Physics, 2016, 119, 094301.	2.5	2

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37	Optical and transport properties correlation driven by amorphous/crystalline disorder in InP nanowires. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 475303.	1.8	1
38	Probing semiconductor confined excitons decay into surface plasmon polaritons. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	3
39	Carrier transfer in vertically stacked quantum ring-quantum dot chains. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	15
40	Structural and magnetic confinement of holes in the spin-polarized emission of coupled quantum ring-quantum dot chains. <i>Physical Review B</i> , 2014, 90, .	3.2	10
41	Low temperature magneto-photoluminescence of GaAsBi /GaAs quantum well heterostructures. <i>Journal of Applied Physics</i> , 2014, 115, 123518.	2.5	11
42	Temperature driven three-dimensional ordering of InGaAs/GaAs quantum dot superlattices grown under As <sub>2</sub> gas flux. <i>Applied Surface Science</i> , 2014, 305, 689-696.	6.1	3
43	Aharonov-Bohm Effect for Neutral Excitons in Quantum Rings. <i>Nanoscience and Technology</i> , 2014, , 247-265.	1.5	1
44	In-plane mapping of buried InGaAs quantum rings and hybridization effects on the electronic structure. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	12
45	Magneto-optical properties of Cd <sub>1-x</sub> MnxS nanoparticles: influences of magnetic doping, Mn <sup>2+</sup> ions localization, and quantum confinement. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3248.	2.8	27
46	Analysis of confinement potential fluctuation and band-gap renormalization effects on excitonic transition in GaAs/AlGaAs multiquantum wells grown on (100) and (311)A GaAs surfaces. <i>Physica B: Condensed Matter</i> , 2012, 407, 2131-2135.	2.7	4
47	Anisotropic Confinement, Electronic Coupling and Strain Induced Effects Detected by Valence-Band Anisotropy in Self-Assembled Quantum Dots. <i>Nanoscale Research Letters</i> , 2011, 6, 56.	5.7	10
48	Isotropic Hall effect and "freeze-in" of carriers in the InGaAs self-assembled quantum wires. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	14
49	Alignment and optical polarization of InGaAs quantum wires on GaAs high index surfaces. <i>Materials Letters</i> , 2011, 65, 1427-1430.	2.6	3
50	Carrier transfer in the optical recombination of quantum dots. <i>Physical Review B</i> , 2011, 83, .	3.2	6
51	Aharonov-Bohm Interference in Neutral Excitons: Effects of Built-In Electric Fields. <i>Physical Review Letters</i> , 2010, 104, 086401.	7.8	80
52	Contrasting LH-HH subband splitting of strained quantum wells grown along [001] and [113] directions. <i>Physical Review B</i> , 2010, 81, .	3.2	5
53	Interface roughness scattering in laterally coupled InGaAs quantum wires. <i>Applied Physics Letters</i> , 2010, 97, 262103.	3.3	14
54	Substrate orientation effect on potential fluctuations in multiquantum wells of GaAs/AlGaAs. <i>Journal of Applied Physics</i> , 2008, 103, 093508.	2.5	13