

# Ana Maria de Paula

## List of Publications by Year in descending order

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94  
papers

2,230  
citations

279487

23  
h-index

223531

46  
g-index

94  
all docs

94  
docs citations

94  
times ranked

3973  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of intense second harmonic generation from MoS <sub>2</sub> atomic crystals. Physical Review B, 2013, 87, .	1.1	566
2	Chemokines and mitochondrial products activate neutrophils to amplify organ injury during mouse acute liver failure. Hepatology, 2012, 56, 1971-1982.	3.6	279
3	The endocannabinoid system mediates aerobic exercise-induced antinociception in rats. Neuropharmacology, 2014, 77, 313-324.	2.0	65
4	Observation of the Sub-100 Femtosecond Population of a Dark State in a Thiobase Mediating Intersystem Crossing. Journal of the American Chemical Society, 2018, 140, 16087-16093.	6.6	63
5	Acute Resistance Exercise Induces Antinociception by Activation of the Endocannabinoid System in Rats. Anesthesia and Analgesia, 2014, 119, 702-715.	1.1	60
6	A Model of DENV-3 Infection That Recapitulates Severe Disease and Highlights the Importance of IFN- $\beta$ in Host Resistance to Infection. PLoS Neglected Tropical Diseases, 2012, 6, e1663.	1.3	58
7	Soft-x-ray wavelength shift induced by ionization effects in a capillary. Optics Letters, 2006, 31, 374.	1.7	55
8	Mitochondrial calcium regulates rat liver regeneration through the modulation of apoptosis. Hepatology, 2011, 54, 296-306.	3.6	53
9	Electron-LO-phonon scattering rates in GaAs-AlxGa1-xAs quantum wells. Semiconductor Science and Technology, 1991, 6, 397-400.	1.0	52
10	Size effects on the phonon spectra of quantum dots in CdTe-doped glasses. Applied Physics Letters, 1996, 69, 357-359.	1.5	49
11	Probing of the quantum dot size distribution in CdTe-doped glasses by photoluminescence excitation spectroscopy. Applied Physics Letters, 1995, 66, 439-441.	1.5	43
12	Defect-Induced Supercollision Cooling of Photoexcited Carriers in Graphene. Nano Letters, 2014, 14, 5621-5624.	4.5	38
13	Membrane Cholesterol Regulates Lysosome-Plasma Membrane Fusion Events and Modulates Trypanosoma cruzi Invasion of Host Cells. PLoS Neglected Tropical Diseases, 2012, 6, e1583.	1.3	37
14	Hyperspectral imaging with a TWINS birefringent interferometer. Optics Express, 2019, 27, 15956.	1.7	36
15	Crystal-oriented wrinkles with origami-type junctions in few-layer hexagonal boron nitride. Nano Research, 2015, 8, 1680-1688.	5.8	35
16	Synchrotron X-ray diffraction and Raman spectroscopy of Ln <sub>3</sub> NbO <sub>7</sub> (Ln=La, Pr, Nd, Sm-Lu) ceramics obtained by molten-salt synthesis. Journal of Solid State Chemistry, 2014, 209, 63-68.	1.4	34
17	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. Nano Letters, 2020, 20, 284-291.	4.5	34
18	PbTe quantum dot doped glasses with absorption edge in the 1.5 $\mu$ m wavelength region. Electronics Letters, 1995, 31, 1013-1015.	0.5	33

#	ARTICLE	IF	CITATIONS
19	Quantum confinement effects on the optical phonons of CdTe quantum dots. Superlattices and Microstructures, 1998, 23, 1103-1106.	1.4	32
20	The Spermatogonial Stem Cell Niche in the Collared Peccary (Tayassu tajacu)1. Biology of Reproduction, 2012, 86, 155, 1-10.	1.2	32
21	A Unified Experimental/Theoretical Description of the Ultrafast Photophysics of Single and Double Thionated Uracils. Chemistry - A European Journal, 2020, 26, 336-343.	1.7	31
22	CdTe quantum dots by melt heat treatment in borosilicate glasses. Journal of Non-Crystalline Solids, 1997, 219, 205-211.	1.5	28
23	Light-heat conversion dynamics in highly diversified water-dispersed hydrophobic nanocrystal assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8161-8166.	3.3	27
24	Angiotensin Converting Enzyme Regulates Cell Proliferation and Migration. PLoS ONE, 2016, 11, e0165371.	1.1	25
25	Double optical tweezers for ultrasensitive force spectroscopy in microsphere Mie scattering. Applied Physics Letters, 2005, 87, 221109.	1.5	22
26	Twisted bilayer graphene photoluminescence emission peaks at van Hove singularities. Journal of Physics Condensed Matter, 2018, 30, 175302.	0.7	21
27	Crystal structure of fluorite-related Ln <sub>3</sub> SbO <sub>7</sub> (Ln=La-Dy) ceramics studied by synchrotron X-ray diffraction and Raman scattering. Journal of Solid State Chemistry, 2013, 203, 326-332.	1.4	20
28	Temperature dependence of the absorption spectra in CdTe-doped glasses. Semiconductor Science and Technology, 1999, 14, 58-63.	1.0	19
29	A hyperspectral microscope based on an ultrastable common-path interferometer. APL Photonics, 2019, 4, .	3.0	19
30	Interaction of electrons with interface phonons in GaAs/AlAs and GaAs/AlGaAs heterostructures. Semiconductor Science and Technology, 1992, 7, B116-B119.	1.0	17
31	Preparation and characterization of tellurium oxide based glass: Li <sub>2</sub> O-TiO <sub>2</sub> -TeO <sub>2</sub> system. Journal of Non-Crystalline Solids, 1995, 191, 107-114.	1.5	17
32	Shallow impurities in V-groove quantum wires. Physical Review B, 2001, 63, .	1.1	17
33	Raman, hyper-Raman, hyper-Rayleigh, two-photon luminescence and morphology-dependent resonance modes in a single optical tweezers system. Physical Review E, 2005, 72, 012903.	0.8	17
34	Gate-tunable non-volatile photomemory effect in MoS <sub>2</sub> transistors. 2D Materials, 2019, 6, 025036.	2.0	17
35	Second harmonic generation imaging of the collagen architecture in prostate cancer tissue. Biomedical Physics and Engineering Express, 2018, 4, 025026.	0.6	16
36	Subpicosecond real-space charge transfer in GaAs/AlAs type II superlattices. Semiconductor Science and Technology, 1992, 7, B120-B123.	1.0	15

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37	Ultrafast electron transfer times in type-II superlattices due to emission of confined phonons. Applied Physics Letters, 1994, 65, 1281-1283.	1.5	15
38	Universal saturation behavior in the transient optical response of plasmonic structures. Physical Review B, 2018, 98, .	1.1	15
39	Ultrafast processes in semiconductor doped glasses. Applied Surface Science, 1997, 109-110, 30-35.	3.1	14
40	Direct measurement of the complex refractive index in the extreme ultraviolet spectral region using diffraction from a nanosphere array. Applied Physics Letters, 2008, 93, 231103.	1.5	14
41	Effect of size dispersion on the optical absorption of an ensemble of semiconductor quantum dots. Semiconductors, 1998, 32, 1229-1233.	0.2	13
42	Carrier capture processes in GaAs/AlGaAs quantum wells due to emission of confined phonons. Applied Physics Letters, 1993, 63, 3026-3028.	1.5	12
43	Raman spectroscopy with a 1064-nm wavelength laser as a potential molecular tool for prostate cancer diagnosis: a pilot study. Journal of Biomedical Optics, 2018, 23, 1.	1.4	12
44	Carrier capture processes in semiconductor superlattices due to emission of confined phonons. Journal of Applied Physics, 1995, 77, 6306-6312.	1.1	11
45	Spatially resolved soft X-ray spectrometry from single-image diffraction. Nature Physics, 2007, 3, 176-179.	6.5	11
46	Ultrafast Plasmonics Beyond the Perturbative Regime: Breaking the Electronic-Optical Dynamics Correspondence. Nano Letters, 2022, 22, 2748-2754.	4.5	11
47	Interband and intersubband absorption in HgCdTe multiple quantum wells. Physical Review B, 1999, 59, 10158-10164.	1.1	8
48	Environment-Driven Coherent Population Transfer Governs the Ultrafast Photophysics of Tryptophan. Journal of the American Chemical Society, 2022, 144, 12884-12892.	6.6	8
49	Photoinduced intersubband transition in undoped HgCdTe multiple quantum wells. Applied Physics Letters, 1995, 66, 2998-3000.	1.5	7
50	Local photodoping in monolayer MoS <sub>2</sub> . Nanotechnology, 2020, 31, 255701.	1.3	7
51	Ultrafast Excited-State Decay Mechanisms of 6-Thioguanine Followed by Sub-20 fs UV Transient Absorption Spectroscopy. Molecules, 2022, 27, 1200.	1.7	7
52	Investigation of inter-valley scattering and hot phonon dynamics in GaAs quantum wells using femtosecond luminescence intensity correlation. Superlattices and Microstructures, 1989, 6, 199-202.	1.4	6
53	Angle-tunable intersubband photoabsorption and enhanced photobleaching in twisted bilayer graphene. Nano Research, 2021, 14, 2797-2804.	5.8	6
54	Canine mammary cancer diagnosis from quantitative properties of nonlinear optical images. Biomedical Optics Express, 2020, 11, 6413.	1.5	6

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55	Photoluminescence measurements of complex defects in Si-doped Al <sub>0.3</sub> Ga <sub>0.7</sub> As. Journal of Applied Physics, 1994, 76, 8051-8054.	1.1	5
56	Preparation and characterisation of high refractive index PbO-TiO <sub>2</sub> -TeO <sub>2</sub> glass systems. Journal of Materials Chemistry, 1996, 6, 1811-1814.	6.7	5
57	Study of the optical properties of TeO <sub>2</sub> -PbO-TiO <sub>2</sub> glass system. Quimica Nova, 1998, 21, 361-364.	0.3	5
58	Spatiotemporal phase-matching in capillary high-harmonic generation. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 806.	0.9	5
59	STM-electroluminescence from clustered C <sub>3</sub> N <sub>4</sub> nanodomains synthesized via green chemistry process. Ultrasonics Sonochemistry, 2018, 40, 742-747.	3.8	5
60	Carrier capture via confined phonons in GaAs-AlGaAs multiple quantum wells. Semiconductor Science and Technology, 1994, 9, 730-732.	1.0	4
61	Absorption coefficient imaging by near-field scanning optical microscopy in bacteria. Applied Optics, 2003, 42, 3005.	2.1	4
62	Molecular variation of capillary-produced soft x-ray high harmonics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 145602.	0.6	4
63	A luminescent supramolecular assembly composed of a single-walled carbon nanotube and a molecular magnet precursor. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	4
64	Canine mammary cancer tumour behaviour and patient survival time are associated with collagen fibre characteristics. Scientific Reports, 2021, 11, 5668.	1.6	4
65	Picosecond photoluminescence intensity correlation measurements of hot carriers in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Journal of Luminescence, 1994, 59, 303-313.	1.5	3
66	Spatially resolved Ar <sup>+</sup> and Ar <sup>+</sup> imaging as a diagnostic for capillary-based high harmonic generation. Journal of Optics, 2009, 11, 054011.	1.5	3
67	EUV off-axis focusing using a high harmonic source. Proceedings of SPIE, 2009, , .	0.8	3
68	Supercollision cooling effects on the hot photoluminescence emission of graphene. Nanotechnology, 2016, 27, 445710.	1.3	3
69	CdTe quantum dots in Er <sup>3+</sup> -doped borosilicate glass. Journal of Materials Science Letters, 1996, 15, 1879-1881.	0.5	1
70	τ to X electron transfer times in type-II GaAs/AlAs superlattices due to emission of confined and interface phonons. Superlattices and Microstructures, 1998, 23, 249-252.	1.4	1
71	Shallow impurities in multiple V-groove quantum wires. Journal of Physics Condensed Matter, 2002, 14, 471-482.	0.7	1
72	Optical Absorption and Transmission Electron Microscopy Analysis of CdTe Quantum Dots Size Distribution. Microscopy and Microanalysis, 2003, 9, 426-427.	0.2	1

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73	Generalized ultrafast dispersion scans of continuum generation induced by sub-50fs chirped pulses in highly nonlinear tapered planar waveguides. , 2005, 5714, 200.		1
74	Enhanced hot luminescence at van Hove singularities in twisted bilayer graphene. , 2017, , .		1
75	Optical parametric amplification in a random medium: BBO nanopowder. , 2017, , .		1
76	Intersystem crossing in thiobases proceeds by a dark intermediate state. EPJ Web of Conferences, 2019, 205, 10005.	0.1	1
77	Temperature Dependence of $\hat{\Gamma}^c$ to Xz Electron Transfer Times in Type-II GaAs/AlAs Superlattices. Physica Status Solidi (B): Basic Research, 1997, 204, 198-200.	0.7	0
78	Ultrasensitive force spectroscopy measurement of single particle light scattering by the use of optical tweezers. , 2005, 5699, 288.		0
79	Linear and non-linear microspectroscopy in an optical tweezers system. , 2005, 5700, 28.		0
80	Microscale diffraction measurements with a high harmonic soft x-ray source. , 2006, , .		0
81	Molecular Control of the Evolution of Capillary-Generated Soft X-ray High Harmonics. , 2007, , .		0
82	Mitochondrial Calcium Regulates Liver Regeneration Through Modulation of Apoptosis. Gastroenterology, 2011, 140, S-472.	0.6	0
83	Imaging the crystal structure of few-layer two-dimensional crystals by optical nonlinearity. , 2013, , .		0
84	Second harmonic generation microscopy as a cancer diagnosis tool. , 2017, , .		0
85	Ultrafast optical response of plasmonic structures beyond the perturbative regime: evidence of universal saturation dynamics. EPJ Web of Conferences, 2019, 205, 04022.	0.1	0
86	Sub-20 fs UV spectroscopy to track primary photoinduced processes in Thiobases. , 2019, , .		0
87	Intersystem Crossing in Thiobases Proceeds by a Dark Intermediate State. , 2019, , .		0
88	Photoinduced Intersubband Absorption and Enhanced Photobleaching in Twisted Bilayer Graphene. , 2021, , .		0
89	Near-Field Scanning Optical Images of Bacteria. , 2002, , .		0
90	Simultaneous measurement of structure and XUV dielectric constant of nanoscale objects using diffraction of high harmonic radiation. , 2009, , .		0

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91	Estudo das propriedades Ópticas em vidros $0,3\text{La}_2\text{S}_3\text{-}0,7\text{Ga}_2\text{S}_3$ . Quimica Nova, 1998, 21, 517-520.	0.3	0
92	Hyperspectral Microscope Based on a Birefringent Interferometer for Biomedical Imaging. , 2019, , .		0
93	Ultrafast intersystem crossing in 4-thiothymidine proceeds through a vibrational coherently accessed dark intermediate state. , 2020, , .		0
94	Photoinduced Intersubband Absorption and Enhanced Photobleaching in Twisted Bilayer Graphene. , 2020, , .		0