

LuÃ-s Pinto da Silva

List of Publications by Year in descending order

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106
papers

2,000
citations

218592

26
h-index

315616

38
g-index

108
all docs

108
docs citations

108
times ranked

1481
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and structural characterization of stable carbamic-carbonic anhydrides: an experimental and computational study. <i>Organic Chemistry Frontiers</i> , 2022, 9, 2154-2163.	2.3	1
2	Copper(II)-Doped Carbon Dots as Catalyst for Ozone Degradation of Textile Dyes. <i>Nanomaterials</i> , 2022, 12, 1211.	1.9	13
3	Rationalizing the role of electron/charge transfer in the intramolecular chemiexcitation of dioxetanone-based chemi-/bioluminescent systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 429, 113904.	2.0	5
4	Life Cycle Assessment-Based Comparative Study between High-Yield and "Standard" Bottom-Up Procedures for the Fabrication of Carbon Dots. <i>Materials</i> , 2022, 15, 3446.	1.3	6
5	Development of a Coelenterazine Derivative with Enhanced Superoxide Anion-Triggered Chemiluminescence in Aqueous Solution. <i>Chemosensors</i> , 2022, 10, 174.	1.8	7
6	Photocatalytic removal of pharmaceutical water pollutants by TiO ₂ - Carbon dots nanocomposites: A review. <i>Chemosphere</i> , 2022, 301, 134731.	4.2	36
7	Theoretical Study of the Thermolysis Reaction and Chemiexcitation of Coelenterazine Dioxetanes. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3486-3494.	1.1	5
8	Tuning the Intramolecular Chemiexcitation of Neutral Dioxetanones by Interaction with Ionic Species. <i>Molecules</i> , 2022, 27, 3861.	1.7	4
9	UV-Based Advanced Oxidation Processes of Remazol Brilliant Blue R Dye Catalyzed by Carbon Dots. <i>Nanomaterials</i> , 2022, 12, 2116.	1.9	4
10	Evaluation of the carbon footprint of the life cycle of wine production: A review. , 2022, 2, 100021.		6
11	Normal breast epithelial MCF-10A cells to evaluate the safety of carbon dots. <i>RSC Medicinal Chemistry</i> , 2021, 12, 245-253.	1.7	21
12	Elucidating the chemiexcitation of dioxetanones by replacing the peroxide bond with S-S, N-N and C-C bonds. <i>New Journal of Chemistry</i> , 2021, 45, 18518-18527.	1.4	6
13	Chemical composition and antioxidant and antimicrobial activities of <i>Lactarius sanguifluus</i> , a wild edible mushroom from northern Morocco. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2021, 6, 1.	0.6	12
14	Chemical Composition, Bioactive Compounds, and Antioxidant Activity of Two Wild Edible Mushrooms <i>Armillaria mellea</i> and <i>Macrolepiota procera</i> from Two Countries (Morocco and Portugal). <i>Biomolecules</i> , 2021, 11, 575.	1.8	37
15	Editorial Materials: Special Issue on Advances in Luminescent Engineered Nanomaterials. <i>Materials</i> , 2021, 14, 3121.	1.3	0
16	Comparative life cycle assessment of high-yield synthesis routes for carbon dots. <i>NanoImpact</i> , 2021, 23, 100332.	2.4	22
17	An Active Surface Preservation Strategy for the Rational Development of Carbon Dots as pH-Responsive Fluorescent Nanosensors. <i>Chemosensors</i> , 2021, 9, 191.	1.8	11
18	Target-Oriented Synthesis of Marine Coelenterazine Derivatives with Anticancer Activity by Applying the Heavy-Atom Effect. <i>Biomedicines</i> , 2021, 9, 1199.	1.4	20

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19	TD-DFT Monitoring of the Absorption Spectra of Polycyclic Aromatic Hydrocarbons over the Basque Country, Spain. <i>Sustainable Chemistry</i> , 2021, 2, 599-609.	2.2	1
20	Carbon Dots as a Fluorescence pH Nanosensor by Application of an Active Surface Preservation Strategy. <i>Chemistry Proceedings</i> , 2021, 5, .	0.1	0
21	Validation of Spent Coffee Grounds as Precursors for the Development of Sustainable Carbon Dot-Based for Fe ³⁺ Optical Sensing. , 2021, 5, .		0
22	Hypochlorite fluorescence sensing by phenylboronic acid-alizarin adduct based carbon dots. <i>Talanta</i> , 2020, 208, 120447.	2.9	31
23	Modelling the absorption spectra of polycyclic aromatic hydrocarbons over Seoul, South Korea. <i>Environmental Technology and Innovation</i> , 2020, 17, 100536.	3.0	1
24	Turning Spent Coffee Grounds into Sustainable Precursors for the Fabrication of Carbon Dots. <i>Nanomaterials</i> , 2020, 10, 1209.	1.9	36
25	Life Cycle Assessment of the Sustainability of Enhancing the Photodegradation Activity of TiO ₂ with Metal-Doping. <i>Materials</i> , 2020, 13, 1487.	1.3	20
26	Evaluation of Different Bottom-up Routes for the Fabrication of Carbon Dots. <i>Nanomaterials</i> , 2020, 10, 1316.	1.9	47
27	Insights into the Photodecomposition of Azidomethyl Methyl Sulfide: A S ₂ /S ₁ Conical Intersection on Nitrene Potential Energy Surfaces Leading to the Formation of S-Methyl-N-sulfenylmethanimine. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1911-1921.	1.1	10
28	Comparative life cycle assessment of bottom-up synthesis routes for carbon dots derived from citric acid and urea. <i>Journal of Cleaner Production</i> , 2020, 254, 120080.	4.6	44
29	Evaluation of the Environmental Impact and Efficiency of N-Doping Strategies in the Synthesis of Carbon Dots. <i>Materials</i> , 2020, 13, 504.	1.3	39
30	A sustainable strategy for the assembly of Glypromate [®] and its structurally-related analogues by tandem sequential peptide coupling. <i>Green Chemistry</i> , 2020, 22, 3584-3596.	4.6	3
31	Mechanistic Insight into the Chemiluminescent Decomposition of Cypridina Dioxetanone and the Chemiluminescent, Fluorescent Properties of the Light Emitter of Cypridina Bioluminescence. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4393-4401.	2.5	15
32	Study of the Combination of Self-Activating Photodynamic Therapy and Chemotherapy for Cancer Treatment. <i>Biomolecules</i> , 2019, 9, 384.	1.8	29
33	Mechanistic insights for the transprotection of tertiary amines with Boc ₂ O <i>via</i> charged carbamates: access to both enantiomers of 2-azanorborene-3-exo-carboxylic acids. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3540-3554.	2.3	2
34	Molecular vibration assisted triplet-triplet annihilation nir-upconversion luminescence of fluorescein. <i>Optical Materials</i> , 2019, 96, 109286.	1.7	2
35	Single-molecule chemiluminescent photosensitizer for a self-activating and tumor-selective photodynamic therapy of cancer. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111683.	2.6	27
36	Insight into the hybrid luminescence showed by carbon dots and molecular fluorophores in solution. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20919-20926.	1.3	40

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37	Modelling the absorption properties of polycyclic aromatic hydrocarbons and derivatives over three European cities by TD-DFT calculations. <i>Science of the Total Environment</i> , 2019, 695, 133881.	3.9	10
38	Mechanistic study of the role of hydrogen bond donors in the two-component organocatalysis of the ring-opening reaction of epoxides. <i>Molecular Catalysis</i> , 2019, 474, 110425.	1.0	8
39	Glucose Sensing by Fluorescent Nanomaterials. <i>Critical Reviews in Analytical Chemistry</i> , 2019, 49, 542-552.	1.8	34
40	Synthesis of Fe- and Co-Doped TiO ₂ with Improved Photocatalytic Activity Under Visible Irradiation Toward Carbamazepine Degradation. <i>Materials</i> , 2019, 12, 3874.	1.3	93
41	Mechanistic insights into the efficient intramolecular chemiexcitation of dioxetanones from TD-DFT and multireference calculations. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25881.	1.0	14
42	Comparative study of the chemiluminescence of coelenterazine, coelenterazine-e and Cypridina luciferin with an experimental and theoretical approach. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 190, 21-31.	1.7	23
43	3-Hydroxyphenylboronic Acid-Based Carbon Dot Sensors for Fructose Sensing. <i>Journal of Fluorescence</i> , 2019, 29, 265-270.	1.3	20
44	Enhanced Excited-State Proton Transfer via a Mixed Methanol-Water Molecular Bridge of 1-Naphthol-3,6-disulfonate in Methanol-Water Mixtures. <i>Journal of Physical Chemistry A</i> , 2019, 123, 48-58.	1.1	9
45	Excited-State Proton Transfer of Phenol Cyanine Picolinium Photoacid. <i>ACS Omega</i> , 2018, 3, 2058-2073.	1.6	8
46	Development of firefly oxyluciferin derivatives as pH sensitive fluorescent Probes: A DFT/TDDFT study. <i>Computational and Theoretical Chemistry</i> , 2018, 1133, 18-24.	1.1	8
47	Study of coelenterazine luminescence: Electrostatic interactions as the controlling factor for efficient chemiexcitation. <i>Journal of Luminescence</i> , 2018, 199, 339-347.	1.5	23
48	Enhanced Excited-State Proton Transfer via a Mixed Water-Methanol Molecular Bridge of 1-Naphthol-5-Sulfonate in Methanol-Water Mixtures. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4704-4716.	1.1	13
49	Combined experimental and theoretical study of Coelenterazine chemiluminescence in aqueous solution. <i>Journal of Luminescence</i> , 2018, 194, 139-145.	1.5	16
50	Excited-State Proton Transfer to H ₂ O in Mixtures of CH ₃ CN-H ₂ O of a Superphotoacid, Chlorobenzoate Phenol Cyanine Picolinium (CBCyP). <i>Journal of Physical Chemistry A</i> , 2018, 122, 8126-8135.	1.1	3
51	Excited-State Proton Transfer from the Photoacid 2-Naphthol-8-sulfonate to Acetonitrile/Water Mixtures. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6166-6175.	1.1	25
52	Combined experimental and theoretical study of the photochemistry of 4- and 3-hydroxycoumarin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 338, 23-36.	2.0	16
53	Theoretical modulation of singlet/triplet chemiexcitation of chemiluminescent imidazopyrazinone dioxetanone via C8-substitution. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 897-907.	1.6	21
54	Theoretically obtained insight into the mechanism and dioxetanone species responsible for the singlet chemiexcitation of Coelenterazine. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 18-26.	1.7	27

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55	Theoretical Study of the Ring-Opening of Epoxides Catalyzed by Boronic Acids and Pyridinic Bases. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16300-16307.	1.5	20
56	Density Functional Theory Calculation of the Absorption Properties of Brown Carbon Chromophores Generated by Catechol Heterogeneous Ozonolysis. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 353-360.	1.2	25
57	Mechanistic Insight into <i>Cypridina</i> Bioluminescence with a Combined Experimental and Theoretical Chemiluminescent Approach. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7862-7871.	1.2	27
58	A Computational Investigation of the Equilibrium Constants for the Fluorescent and Chemiluminescent States of Coelenteramide. <i>ChemPhysChem</i> , 2017, 18, 117-123.	1.0	18
59	Theoretical Analysis of the Effect Provoked by Bromine-Addition on the Thermolysis and Chemiexcitation of a Model Dioxetanone. <i>Journal of Chemistry</i> , 2017, 2017, 1-8.	0.9	0
60	Chemiluminescence and Bioluminescence as an Excitation Source in the Photodynamic Therapy of Cancer: A Critical Review. <i>ChemPhysChem</i> , 2016, 17, 2286-2294.	1.0	79
61	Comparison of the Photoprotolytic Processes of Three 7-Hydroxycoumarins. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10297-10310.	1.2	18
62	Interstate Crossing-Induced Chemiexcitation Mechanism as the Basis for Imidazopyrazinone Bioluminescence. <i>ChemistrySelect</i> , 2016, 1, 3343-3356.	0.7	21
63	Excited-State Proton Transfer and Formation of the Excited Tautomer of 3-Hydroxypyridine-Dipicolinium Cyanine Dye. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6184-6199.	1.1	7
64	A theoretical study of the UV absorption of 4-methylbenzylidene camphor: from the UVB to the UVA region. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 465-472.	1.6	9
65	Theoretical Study of the Nontraditional Enolate-Based Photoacidity of Firefly Oxyluciferin. <i>ChemPhysChem</i> , 2015, 16, 455-464.	1.0	18
66	Chemiexcitation Induced Proton Transfer: Enolate Oxyluciferin as the Firefly Bioluminophore. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2140-2148.	1.2	27
67	Theoretical Analysis of the Binding of Potential Inhibitors to Protein Kinases MK2 and MK3. <i>Medicinal Chemistry</i> , 2015, 11, 573-579.	0.7	4
68	A Theoretical Analysis of the Potential Role of π - π Stacking Interactions in the Photoprotolytic Cycle of Firefly Luciferin. <i>ChemPhysChem</i> , 2014, 15, 3761-3767.	1.0	2
69	Comparative theoretical study of the binding of potential cancer-treatment drugs to Checkpoint kinase 1. <i>Chemical Physics Letters</i> , 2014, 591, 273-276.	1.2	0
70	Theoretical study of the effect of resonance on π - π stacked firefly oxyluciferin dimers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 278, 9-13.	2.0	1
71	Dioxetanones TM peroxide bond as a charge-shifted bond: implications in the chemiluminescence process. <i>Structural Chemistry</i> , 2014, 25, 1075-1081.	1.0	9
72	Structural and electronic characterization of a <i>Fridericia heliota</i> luciferin-related derivative, based on quantum chemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 288, 46-54.	2.0	0

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73	A computational study of the structure, aromaticity and enthalpy of formation of UVA filter 4-tert-butyl-4-methoxydibenzoylmethane. <i>Computational and Theoretical Chemistry</i> , 2014, 1038, 6-16.	1.1	1
74	UV filter 2-ethylhexyl 4-methoxycinnamate: a structure, energetic and UV-vis spectral analysis based on density functional theory. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 47-56.	0.9	24
75	Structural, Energetic, and UV-Vis Spectral Analysis of UVA Filter 4-tert-Butyl-4-methoxydibenzoylmethane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1511-1518.	1.1	26
76	Study of firefly luciferin oxidation and isomerism as possible inhibition pathways for firefly bioluminescence. <i>Chemical Physics Letters</i> , 2014, 592, 188-191.	1.2	4
77	Gas-phase molecular structure and energetics of UVB filter 4-methylbenzylidene camphor: A computational study. <i>Computational and Theoretical Chemistry</i> , 2014, 1033, 67-73.	1.1	3
78	Quantum/molecular mechanics study of firefly bioluminescence on luciferase oxidative conformation. <i>Chemical Physics Letters</i> , 2014, 608, 45-49.	1.2	15
79	Theoretical Modelling of Potential Chk1 Inhibitors. <i>Letters in Drug Design and Discovery</i> , 2014, 12, 60-65.	0.4	0
80	Analysis of the performance of DFT functionals in the study of light emission by oxyluciferin analogs. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 45-51.	1.0	15
81	Theoretical Photodynamic Study of the Photoprotolytic Cycle of Firefly Oxyluciferin. <i>ChemPhysChem</i> , 2013, 14, 2711-2716.	1.0	18
82	Oxyluciferin Photoacidity: The Missing Element for Solving the Keto-Enol Mystery?. <i>ChemPhysChem</i> , 2013, 14, 3441-3446.	1.0	27
83	Theoretical study of the superoxide anion assisted firefly oxyluciferin formation. <i>Chemical Physics Letters</i> , 2013, 590, 180-182.	1.2	0
84	Theoretical fingerprinting of the photophysical properties of four firefly bioluminophores. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 2028.	1.6	15
85	Interstate Crossing-Induced Chemiexcitation as the Reason for the Chemiluminescence of Dioxetanones. <i>ChemPhysChem</i> , 2013, 14, 1071-1079.	1.0	26
86	Theoretical study of the correlation between superoxide anion consumption and firefly luciferin chemiluminescence. <i>Chemical Physics Letters</i> , 2013, 577, 127-130.	1.2	5
87	Efficient Firefly Chemi/Bioluminescence: Evidence for Chemiexcitation Resulting from the Decomposition of a Neutral Firefly Dioxetanone Molecule. <i>Journal of Physical Chemistry A</i> , 2013, 117, 94-100.	1.1	28
88	Chemiluminescence of 1,2-dioxetanone studied by a closed-shell DFT approach. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 1709-1716.	1.0	6
89	Firefly luciferin as a multifunctional chemiluminescence molecule. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1615-1621.	1.6	7
90	Mechanistic study of the unimolecular decomposition of 1,2-dioxetanedione. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 659-663.	0.9	15

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91	Theoretical study of the efficient fluorescence quenching process of the firefly luciferin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 266, 47-54.	2.0	11
92	Advances in the knowledge of light emission by firefly luciferin and oxyluciferin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 117, 33-39.	1.7	73
93	Theoretical analysis of the color tuning mechanism of oxyluciferin and 5-hydroxyoxyluciferin. <i>Computational and Theoretical Chemistry</i> , 2012, 988, 56-62.	1.1	11
94	Comparative theoretical study of the binding of luciferyl-adenylate and dehydroluciferyl-adenylate to firefly luciferase. <i>Chemical Physics Letters</i> , 2012, 543, 137-141.	1.2	8
95	Excited-State Proton Transfer of Firefly Dehydroluciferin. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10770-10779.	1.1	14
96	TD-DFT/Molecular Mechanics Study of the <i>Photinus pyralis</i> Bioluminescence System. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2008-2013.	1.2	29
97	Density functional theory study of 1,2-dioxetanone decomposition in condensed phase. <i>Journal of Computational Chemistry</i> , 2012, 33, 2118-2123.	1.5	12
98	Response to comment on density functional theory study of 1,2-dioxetanone decomposition in condensed phase. <i>Journal of Computational Chemistry</i> , 2012, 33, 2127-2130.	1.5	8
99	Firefly Chemiluminescence and Bioluminescence: Efficient Generation of Excited States. <i>ChemPhysChem</i> , 2012, 13, 2257-2262.	1.0	67
100	Comparative Study of the Photoprotolytic Reactions of <i>D</i> -Luciferin and Oxyluciferin. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7452-7461.	1.1	41
101	Reversed-phase HPLC/FD method for the quantitative analysis of the neurotoxin BMAA (<i>[2-N-methylamino-l-alanine]</i>) in cyanobacteria. <i>Toxicon</i> , 2012, 59, 379-384.	0.8	16
102	Computational Studies of the Luciferase Light-Emitting Product: Oxyluciferin. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 809-817.	2.3	78
103	Kinetics of inhibition of firefly luciferase by dehydroluciferyl-coenzyme A, dehydroluciferin and <i>D</i> -Luciferin. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1039-1045.	1.6	49
104	Computational Investigation of the Effect of pH on the Color of Firefly Bioluminescence by DFT. <i>ChemPhysChem</i> , 2011, 12, 951-960.	1.0	66
105	Study on the Effects of Intermolecular Interactions on Firefly Multicolor Bioluminescence. <i>ChemPhysChem</i> , 2011, 12, 3002-3008.	1.0	33
106	Theoretical modulation of the color of light emitted by firefly oxyluciferin. <i>Journal of Computational Chemistry</i> , 2011, 32, 2654-2663.	1.5	30