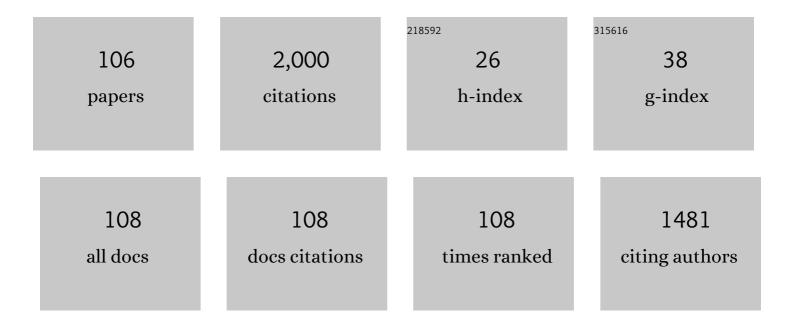
List of Publications by Year in descending order

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Ι μÃε Ριντό σα διινά

#	Article	IF	CITATIONS
1	Synthesis of Fe- and Co-Doped TiO2 with Improved Photocatalytic Activity Under Visible Irradiation Toward Carbamazepine Degradation. Materials, 2019, 12, 3874.	1.3	93
2	Chemiluminescence and Bioluminescence as an Excitation Source in the Photodynamic Therapy of Cancer: A Critical Review. ChemPhysChem, 2016, 17, 2286-2294.	1.0	79
3	Computational Studies of the Luciferase Light-Emitting Product: Oxyluciferin. Journal of Chemical Theory and Computation, 2011, 7, 809-817.	2.3	78
4	Advances in the knowledge of light emission by firefly luciferin and oxyluciferin. Journal of Photochemistry and Photobiology B: Biology, 2012, 117, 33-39.	1.7	73
5	Firefly Chemiluminescence and Bioluminescence: Efficient Generation of Excited States. ChemPhysChem, 2012, 13, 2257-2262.	1.0	67
6	Computational Investigation of the Effect of pH on the Color of Firefly Bioluminescence by DFT. ChemPhysChem, 2011, 12, 951-960.	1.0	66
7	Kinetics of inhibition of firefly luciferase by dehydroluciferyl-coenzyme A, dehydroluciferin and I-luciferin. Photochemical and Photobiological Sciences, 2011, 10, 1039-1045.	1.6	49
8	Evaluation of Different Bottom-up Routes for the Fabrication of Carbon Dots. Nanomaterials, 2020, 10, 1316.	1.9	47
9	Comparative life cycle assessment of bottom-up synthesis routes for carbon dots derived from citric acid and urea. Journal of Cleaner Production, 2020, 254, 120080.	4.6	44
10	Comparative Study of the Photoprotolytic Reactions of <scp>d</scp> -Luciferin and Oxyluciferin. Journal of Physical Chemistry A, 2012, 116, 7452-7461.	1.1	41
11	Insight into the hybrid luminescence showed by carbon dots and molecular fluorophores in solution. Physical Chemistry Chemical Physics, 2019, 21, 20919-20926.	1.3	40
12	Evaluation of the Environmental Impact and Efficiency of N-Doping Strategies in the Synthesis of Carbon Dots. Materials, 2020, 13, 504.	1.3	39
13	Chemical Composition, Bioactive Compounds, and Antioxidant Activity of Two Wild Edible Mushrooms Armillaria mellea and Macrolepiota procera from Two Countries (Morocco and Portugal). Biomolecules, 2021, 11, 575.	1.8	37
14	Turning Spent Coffee Grounds into Sustainable Precursors for the Fabrication of Carbon Dots. Nanomaterials, 2020, 10, 1209.	1.9	36
15	Photocatalytic removal of pharmaceutical water pollutants by TiO2 – Carbon dots nanocomposites: A review. Chemosphere, 2022, 301, 134731.	4.2	36
16	Glucose Sensing by Fluorescent Nanomaterials. Critical Reviews in Analytical Chemistry, 2019, 49, 542-552.	1.8	34
17	Study on the Effects of Intermolecular Interactions on Firefly Multicolor Bioluminescence. ChemPhysChem, 2011, 12, 3002-3008.	1.0	33
18	Hypochlorite fluorescence sensing by phenylboronic acid-alizarin adduct based carbon dots. Talanta, 2020, 208, 120447.	2.9	31

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19	Theoretical modulation of the color of light emitted by firefly oxyluciferin. Journal of Computational Chemistry, 2011, 32, 2654-2663.	1.5	30
20	TD-DFT/Molecular Mechanics Study of the Photinus pyralis Bioluminescence System. Journal of Physical Chemistry B, 2012, 116, 2008-2013.	1.2	29
21	Study of the Combination of Self-Activating Photodynamic Therapy and Chemotherapy for Cancer Treatment. Biomolecules, 2019, 9, 384.	1.8	29
22	Efficient Firefly Chemi/Bioluminescence: Evidence for Chemiexcitation Resulting from the Decomposition of a Neutral Firefly Dioxetanone Molecule. Journal of Physical Chemistry A, 2013, 117, 94-100.	1.1	28
23	Oxyluciferin Photoacidity: The Missing Element for Solving the Keto–Enol Mystery?. ChemPhysChem, 2013, 14, 3441-3446.	1.0	27
24	Chemiexcitation Induced Proton Transfer: Enolate Oxyluciferin as the Firefly Bioluminophore. Journal of Physical Chemistry B, 2015, 119, 2140-2148.	1.2	27
25	Theoretically obtained insight into the mechanism and dioxetanone species responsible for the singlet chemiexcitation of Coelenterazine. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 18-26.	1.7	27
26	Mechanistic Insight into <i>Cypridina</i> Bioluminescence with a Combined Experimental and Theoretical Chemiluminescent Approach. Journal of Physical Chemistry B, 2017, 121, 7862-7871.	1.2	27
27	Single-molecule chemiluminescent photosensitizer for a self-activating and tumor-selective photodynamic therapy of cancer. European Journal of Medicinal Chemistry, 2019, 183, 111683.	2.6	27
28	Interstate Crossingâ€Induced Chemiexcitation as the Reason for the Chemiluminescence of Dioxetanones. ChemPhysChem, 2013, 14, 1071-1079.	1.0	26
29	Structural, Energetic, and UV–Vis Spectral Analysis of UVA Filter 4- <i>tert</i> -Butyl-4′-methoxydibenzoylmethane. Journal of Physical Chemistry A, 2014, 118, 1511-1518.	1.1	26
30	Density Functional Theory Calculation of the Absorption Properties of Brown Carbon Chromophores Generated by Catechol Heterogeneous Ozonolysis. ACS Earth and Space Chemistry, 2017, 1, 353-360.	1.2	25
31	Excited-State Proton Transfer from the Photoacid 2-Naphthol-8-sulfonate to Acetonitrile/Water Mixtures. Journal of Physical Chemistry A, 2018, 122, 6166-6175.	1.1	25
32	UV filter 2â€ethylhexyl 4â€methoxycinnamate: a structure, energetic and UV–vis spectral analysis based on density functional theory. Journal of Physical Organic Chemistry, 2014, 27, 47-56.	0.9	24
33	Study of coelenterazine luminescence: Electrostatic interactions as the controlling factor for efficient chemiexcitation. Journal of Luminescence, 2018, 199, 339-347.	1.5	23
34	Comparative study of the chemiluminescence of coelenterazine, coelenterazine-e and Cypridina luciferin with an experimental and theoretical approach. Journal of Photochemistry and Photobiology B: Biology, 2019, 190, 21-31.	1.7	23
35	Comparative life cycle assessment of high-yield synthesis routes for carbon dots. NanoImpact, 2021, 23, 100332.	2.4	22
36	Interstate Crossing-Induced Chemiexcitation Mechanism as the Basis for Imidazopyrazinone Bioluminescence. ChemistrySelect, 2016, 1, 3343-3356.	0.7	21

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37	Theoretical modulation of singlet/triplet chemiexcitation of chemiluminescent imidazopyrazinone dioxetanone via C8-substitution. Photochemical and Photobiological Sciences, 2017, 16, 897-907.	1.6	21
38	Normal breast epithelial MCF-10A cells to evaluate the safety of carbon dots. RSC Medicinal Chemistry, 2021, 12, 245-253.	1.7	21
39	Theoretical Study of the Ring-Opening of Epoxides Catalyzed by Boronic Acids and Pyridinic Bases. Journal of Physical Chemistry C, 2017, 121, 16300-16307.	1.5	20
40	3-Hydroxyphenylboronic Acid-Based Carbon Dot Sensors for Fructose Sensing. Journal of Fluorescence, 2019, 29, 265-270.	1.3	20
41	Life Cycle Assessment of the Sustainability of Enhancing the Photodegradation Activity of TiO2 with Metal-Doping. Materials, 2020, 13, 1487.	1.3	20
42	Target-Oriented Synthesis of Marine Coelenterazine Derivatives with Anticancer Activity by Applying the Heavy-Atom Effect. Biomedicines, 2021, 9, 1199.	1.4	20
43	Theoretical Photodynamic Study of the Photoprotolytic Cycle of Firefly Oxyluciferin. ChemPhysChem, 2013, 14, 2711-2716.	1.0	18
44	Theoretical Study of the Nontraditional Enolâ€Based Photoacidity of Firefly Oxyluciferin. ChemPhysChem, 2015, 16, 455-464.	1.0	18
45	Comparison of the Photoprotolytic Processes of Three 7-Hydroxycoumarins. Journal of Physical Chemistry B, 2016, 120, 10297-10310.	1.2	18
46	A Computational Investigation of the Equilibrium Constants for the Fluorescent and Chemiluminescent States of Coelenteramide. ChemPhysChem, 2017, 18, 117-123.	1.0	18
47	Reversed-phase HPLC/FD method for the quantitative analysis of the neurotoxin BMAA (β-N-methylamino-l-alanine) in cyanobacteria. Toxicon, 2012, 59, 379-384.	0.8	16
48	Combined experimental and theoretical study of the photochemistry of 4- and 3-hydroxycoumarin. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 338, 23-36.	2.0	16
49	Combined experimental and theoretical study of Coelenterazine chemiluminescence in aqueous solution. Journal of Luminescence, 2018, 194, 139-145.	1.5	16
50	Analysis of the performance of DFT functionals in the study of light emission by oxyluciferin analogs. International Journal of Quantum Chemistry, 2013, 113, 45-51.	1.0	15
51	Theoretical fingerprinting of the photophysical properties of four firefly bioluminophores. Photochemical and Photobiological Sciences, 2013, 12, 2028.	1.6	15
52	Mechanistic study of the unimolecular decomposition of 1,2â€dioxetanedione. Journal of Physical Organic Chemistry, 2013, 26, 659-663.	0.9	15
53	Quantum/molecular mechanics study of firefly bioluminescence on luciferase oxidative conformation. Chemical Physics Letters, 2014, 608, 45-49.	1.2	15
54	Mechanistic Insight into the Chemiluminescent Decomposition of <i>Cypridina</i> Dioxetanone and the Chemiluminescent, Fluorescent Properties of the Light Emitter of <i>Cypridina</i> Bioluminescence. Journal of Chemical Information and Modeling, 2019, 59, 4393-4401.	2.5	15

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55	Excited-State Proton Transfer of Firefly Dehydroluciferin. Journal of Physical Chemistry A, 2012, 116, 10770-10779.	1.1	14
56	Mechanistic insights into the efficient intramolecular chemiexcitation of dioxetanones from TDâ€DFT and multireference calculations. International Journal of Quantum Chemistry, 2019, 119, e25881.	1.0	14
57	Enhanced Excited-State Proton Transfer via a Mixed Water–Methanol Molecular Bridge of 1-Naphthol-5-Sulfonate in Methanol–Water Mixtures. Journal of Physical Chemistry A, 2018, 122, 4704-4716.	1.1	13
58	Copper(II)-Doped Carbon Dots as Catalyst for Ozone Degradation of Textile Dyes. Nanomaterials, 2022, 12, 1211.	1.9	13
59	Density functional theory study of 1,2â€dioxetanone decomposition in condensed phase. Journal of Computational Chemistry, 2012, 33, 2118-2123.	1.5	12
60	Chemical composition and antioxidant and antimicrobial activities of Lactarius sanguifluus, a wild edible mushroom from northern Morocco. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 1.	0.6	12
61	Theoretical analysis of the color tuning mechanism of oxyluciferin and 5-hydroxyoxyluciferin. Computational and Theoretical Chemistry, 2012, 988, 56-62.	1.1	11
62	Theoretical study of the efficient fluorescence quenching process of the firefly luciferin. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 266, 47-54.	2.0	11
63	An Active Surface Preservation Strategy for the Rational Development of Carbon Dots as pH-Responsive Fluorescent Nanosensors. Chemosensors, 2021, 9, 191.	1.8	11
64	Modelling the absorption properties of polycyclic aromatic hydrocarbons and derivatives over three European cities by TD-DFT calculations. Science of the Total Environment, 2019, 695, 133881.	3.9	10
65	Insights into the Photodecomposition of Azidomethyl Methyl Sulfide: A S <sub>2</sub> /S <sub>1</sub> Conical Intersection on Nitrene Potential Energy Surfaces Leading to the Formation of <i>S</i> -Methyl- <i>N</i> -sulfenylmethanimine. Journal of Physical Chemistry A, 2020, 124, 1911-1921.	1.1	10
66	Dioxetanones' peroxide bond as a charge-shifted bond: implications in the chemiluminescence process. Structural Chemistry, 2014, 25, 1075-1081.	1.0	9
67	A theoretical study of the UV absorption of 4-methylbenzylidene camphor: from the UVB to the UVA region. Photochemical and Photobiological Sciences, 2015, 14, 465-472.	1.6	9
68	Enhanced Excited-State Proton Transfer via a Mixed Methanol–Water Molecular Bridge of 1-Naphthol-3,6-disulfonate in Methanol–Water Mixtures. Journal of Physical Chemistry A, 2019, 123, 48-58.	1.1	9
69	Comparative theoretical study of the binding of luciferyl-adenylate and dehydroluciferyl-adenylate to firefly luciferase. Chemical Physics Letters, 2012, 543, 137-141.	1.2	8
70	Response to "comment on density functional theory study of 1,2â€dioxetanone decomposition in condensed phase― Journal of Computational Chemistry, 2012, 33, 2127-2130.	1.5	8
71	Excited-State Proton Transfer of Phenol Cyanine Picolinium Photoacid. ACS Omega, 2018, 3, 2058-2073.	1.6	8
72	Development of firefly oxyluciferin derivatives as pH sensitive fluorescent Probes: A DFT/TDDFT study. Computational and Theoretical Chemistry, 2018, 1133, 18-24.	1.1	8

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73	Mechanistic study of the role of hydrogen bond donors in the two-component organocatalysis of the ring-opening reaction of epoxides. Molecular Catalysis, 2019, 474, 110425.	1.0	8
74	Firefly luciferin as a multifunctional chemiluminescence molecule. Photochemical and Photobiological Sciences, 2013, 12, 1615-1621.	1.6	7
75	Excited-State Proton Transfer and Formation of the Excited Tautomer of 3-Hydroxypyridine-Dipicolinium Cyanine Dye. Journal of Physical Chemistry A, 2016, 120, 6184-6199.	1.1	7
76	Development of a Coelenterazine Derivative with Enhanced Superoxide Anion-Triggered Chemiluminescence in Aqueous Solution. Chemosensors, 2022, 10, 174.	1.8	7
77	Chemiluminescence of 1,2â€dioxetanone studied by a closedâ€shell DFT approach. International Journal of Quantum Chemistry, 2013, 113, 1709-1716.	1.0	6
78	Elucidating the chemiexcitation of dioxetanones by replacing the peroxide bond with S–S, N–N and C–C bonds. New Journal of Chemistry, 2021, 45, 18518-18527.	1.4	6
79	Life Cycle Assessment-Based Comparative Study between High-Yield and "Standard―Bottom-Up Procedures for the Fabrication of Carbon Dots. Materials, 2022, 15, 3446.	1.3	6
80	Evaluation of the carbon footprint of the life cycle of wine production: A review. , 2022, 2, 100021.		6
81	Theoretical study of the correlation between superoxide anion consumption and firefly luciferin chemiluminescence. Chemical Physics Letters, 2013, 577, 127-130.	1.2	5
82	Rationalizing the role of electron/charge transfer in the intramolecular chemiexcitation of dioxetanone-based chemi-/bioluminescent systems. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 429, 113904.	2.0	5
83	Theoretical Study of the Thermolysis Reaction and Chemiexcitation of Coelenterazine Dioxetanes. Journal of Physical Chemistry A, 2022, 126, 3486-3494.	1.1	5
84	Study of firefly luciferin oxidation and isomerism as possible inhibition pathways for firefly bioluminescence. Chemical Physics Letters, 2014, 592, 188-191.	1.2	4
85	Theoretical Analysis of the Binding of Potential Inhibitors to Protein Kinases MK2 and MK3. Medicinal Chemistry, 2015, 11, 573-579.	0.7	4
86	Tuning the Intramolecular Chemiexcitation of Neutral Dioxetanones by Interaction with Ionic Species. Molecules, 2022, 27, 3861.	1.7	4
87	UV-Based Advanced Oxidation Processes of Remazol Brilliant Blue R Dye Catalyzed by Carbon Dots. Nanomaterials, 2022, 12, 2116.	1.9	4
88	Gas-phase molecular structure and energetics of UVB filter 4-methylbenzylidene camphor: A computational study. Computational and Theoretical Chemistry, 2014, 1033, 67-73.	1.1	3
89	Excited-State Proton Transfer to H <sub>2</sub> O in Mixtures of CH <sub>3</sub> CN–H <sub>2</sub> O of a Superphotoacid, Chlorobenzoate Phenol Cyanine Picolinium (CBCyP). Journal of Physical Chemistry A, 2018, 122, 8126-8135.	1.1	3
90	A sustainable strategy for the assembly of Glypromate® and its structurally-related analogues by tandem sequential peptide coupling. Green Chemistry, 2020, 22, 3584-3596.	4.6	3

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91	A Theoretical Analysis of the Potential Role of ï€â€"ï€ Stacking Interactions in the Photoprotolytic Cycle of Firefly Luciferin. ChemPhysChem, 2014, 15, 3761-3767.	1.0	2
92	Mechanistic insights for the transprotection of tertiary amines with Boc <sub>2</sub> O <i>via</i> charged carbamates: access to both enantiomers of 2-azanorbornane-3- <i>exo</i> -carboxylic acids. Organic Chemistry Frontiers, 2019, 6, 3540-3554.	2.3	2
93	Molecular vibration assisted triplet-triplet annihilation nir-upconversion luminescence of fluorescein. Optical Materials, 2019, 96, 109286.	1.7	2
94	Theoretical study of the effect of resonance on π–π stacked firefly oxyluciferin dimers. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 278, 9-13.	2.0	1
95	A computational study of the structure, aromaticity and enthalpy of formation of UVA filter 4-tert-butyl-4′-methoxydibenzoylmethane. Computational and Theoretical Chemistry, 2014, 1038, 6-16.	1.1	1
96	Modelling the absorption spectra of polycyclic aromatic hydrocarbons over Seoul, South Korea. Environmental Technology and Innovation, 2020, 17, 100536.	3.0	1
97	TD-DFT Monitoring of the Absorption Spectra of Polycyclic Aromatic Hydrocarbons over the Basque Country, Spain. Sustainable Chemistry, 2021, 2, 599-609.	2.2	1
98	Isolation and structural characterization of stable carbamic–carbonic anhydrides: an experimental and computational study. Organic Chemistry Frontiers, 2022, 9, 2154-2163.	2.3	1
99	Theoretical study of the superoxide anion assisted firefly oxyluciferin formation. Chemical Physics Letters, 2013, 590, 180-182.	1.2	0
100	Comparative theoretical study of the binding of potential cancer-treatment drugs to Checkpoint kinase 1. Chemical Physics Letters, 2014, 591, 273-276.	1.2	0
101	Structural and electronic characterization of a Fridericia heliota luciferin-related derivative, based on quantum chemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 288, 46-54.	2.0	Ο
102	Theoretical Analysis of the Effect Provoked by Bromine-Addition on the Thermolysis and Chemiexcitation of a Model Dioxetanone. Journal of Chemistry, 2017, 2017, 1-8.	0.9	0
103	Editorial Materials: Special Issue on Advances in Luminescent Engineered Nanomaterials. Materials, 2021, 14, 3121.	1.3	Ο
104	Theoretical Modelling of Potential Chk1 Inhibitors. Letters in Drug Design and Discovery, 2014, 12, 60-65.	0.4	0
105	Carbon Dots as a Fluorescence pH Nanosensor by Application of an Active Surface Preservation Strategy. Chemistry Proceedings, 2021, 5, .	0.1	0
106	Validation of Spent Coffee Grounds as Precursors for the Development of Sustainable Carbon Dot-Based for Fe3+ Optical Sensing. , 2021, 5, .		0