

Nadia Barbero

List of Publications by Year in descending order

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85
papers

2,400
citations

201674

27
h-index

223800

46
g-index

89
all docs

89
docs citations

89
times ranked

3054
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. <i>Green Chemistry</i> , 2020, 22, 7168-7218.	9.0	272
2	A study of the interaction between fluorescein sodium salt and bovine serum albumin by steady-state fluorescence. <i>Dyes and Pigments</i> , 2009, 80, 307-313.	3.7	132
3	Why Dyes Should Not Be Used to Test the Photocatalytic Activity of Semiconductor Oxides. <i>Environmental Science & Technology</i> , 2016, 50, 2130-2131.	10.0	107
4	Polymethine Dyes in Hybrid Photovoltaics: Structure–Properties Relationships. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2244-2259.	2.4	84
5	Symmetric vs. asymmetric squaraines as photosensitizers in mesoscopic injection solar cells: a structure–property relationship study. <i>Chemical Communications</i> , 2012, 48, 2782.	4.1	79
6	Toward Sustainable, Colorless, and Transparent Photovoltaics: State of the Art and Perspectives for the Development of Selective Near-Infrared Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101598.	19.5	73
7	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. <i>Jacs Au</i> , 2021, 1, 409-426.	7.9	66
8	Microwave-Assisted Synthesis of Near-Infrared Fluorescent Indole-Based Squaraines. <i>Organic Letters</i> , 2015, 17, 3306-3309.	4.6	62
9	ZnO Nanowire Application in Chemoresistive Sensing: A Review. <i>Nanomaterials</i> , 2017, 7, 381.	4.1	60
10	Terpyridine and Quaterpyridine Complexes as Sensitizers for Photovoltaic Applications. <i>Materials</i> , 2016, 9, 137.	2.9	50
11	Squaraines bearing halogenated moieties as anticancer photosensitizers: Synthesis, characterization and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2016, 113, 187-197.	5.5	50
12	Design and synthesis of symmetrical pentamethine cyanine dyes as NIR photosensitizers for PDT. <i>Dyes and Pigments</i> , 2019, 160, 806-813.	3.7	50
13	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for <i>p</i> -Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16340-16353.	3.1	48
14	Unusual Behavior of the Aqueous Solutions of Gemini Bispyridinium Surfactants: Apparent and Partial Molar Enthalpies of the Dimethanesulfonates. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12312-12317.	2.6	46
15	Electrodeposited ZnO with squaraine sensitizers as photoactive anode of DSCs. <i>Materials Research Express</i> , 2014, 1, 015040.	1.6	44
16	Micellization properties of mixed cationic gemini and cationic monomeric surfactants in aqueous-ethylene glycol mixture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 381, 61-69.	4.7	43
17	Interaction Between Cationic Gemini and Monomeric Surfactants: Micellar and Surface Properties. <i>Journal of Nanofluids</i> , 2013, 2, 316-324.	2.7	42
18	Panchromatic symmetrical squaraines: a step forward in the molecular engineering of low cost blue-greenish sensitizers for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24173-24177.	2.8	41

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19	Synthesis and properties of cationic surfactants with tuned hydrophobicity. <i>Journal of Colloid and Interface Science</i> , 2009, 340, 269-275.	9.4	40
20	Effect of polymers and temperature on critical micelle concentration of some gemini and monomeric surfactants. <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 178-185.	2.0	37
21	Characterization of monomeric and gemini cationic amphiphilic molecules by fluorescence intensity and anisotropy. <i>Dyes and Pigments</i> , 2009, 82, 124-129.	3.7	36
22	Near-infrared Sensitization in Dye-sensitized Solar Cells. <i>Chimia</i> , 2013, 67, 129-135.	0.6	35
23	Near-infrared absorbing squaraine dye with extended π conjugation for dye-sensitized solar cells. <i>Renewable Energy</i> , 2013, 60, 672-678.	8.9	34
24	In silico maturation of affinity and selectivity of DNA aptamers against aflatoxin B1 for biosensor development. <i>Analytica Chimica Acta</i> , 2020, 1105, 178-186.	5.4	33
25	Near-infrared emitting single squaraine dye aggregates with large Stokes shifts. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7732-7738.	5.5	32
26	Nonviral gene-delivery by highly fluorinated gemini bispyridinium surfactant-based DNA nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 182-191.	9.4	31
27	Synthesis and Characterization of Highly Fluorinated Gemini Pyridinium Surfactants. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3167-3177.	2.4	30
28	Mucin-drugs interaction: The case of theophylline, prednisolone and cephalexin. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6581-6586.	3.0	29
29	A Simple Synthetic Route to Obtain Pure <i>trans</i> -Ruthenium(II) Complexes for Dye-Sensitized Solar Cell Applications. <i>ChemSusChem</i> , 2013, 6, 2170-2180.	6.8	27
30	Nonviral Gene Delivery: Gemini Bispyridinium Surfactant-Based DNA Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13183-13191.	2.6	27
31	Squaraine Dyes: Interaction with Bovine Serum Albumin to Investigate Supramolecular Adducts with Aggregation-Induced Emission (AIE) Properties. <i>Chemistry - an Asian Journal</i> , 2019, 14, 896-903.	3.3	27
32	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 324, 115069.	4.9	27
33	Exploring gold nanoparticles interaction with mucins: A spectroscopic-based study. <i>International Journal of Pharmaceutics</i> , 2018, 535, 438-443.	5.2	26
34	Characterization of monomeric and gemini cationic amphiphilic molecules by fluorescence intensity and anisotropy. Part 2. <i>Dyes and Pigments</i> , 2009, 83, 396-402.	3.7	25
35	Physicochemical characterization of cationic gemini surfactants and their effect on reaction kinetics in ethylene glycol-water medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 411, 1-11.	4.7	25
36	Dicyanovinyl and Cyano-Ester Benzoindolenine Squaraine Dyes: The Effect of the Central Functionalization on Dye-Sensitized Solar Cell Performance. <i>Energies</i> , 2016, 9, 486.	3.1	25

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37	Excited state photophysics of squaraine dyes for photovoltaic applications: an alternative deactivation scenario. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2778-2785.	5.5	25
38	Mesoporous silica nanoparticles incorporating squaraine-based photosensitizers: a combined experimental and computational approach. <i>Dalton Transactions</i> , 2018, 47, 3038-3046.	3.3	24
39	Polymeric Dopant-Free Hole Transporting Materials for Perovskite Solar Cells: Structures and Concepts towards Better Performances. <i>Polymers</i> , 2021, 13, 1652.	4.5	24
40	Polymethine dyes for PDT: recent advances and perspectives to drive future applications. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 397-419.	2.9	23
41	Raman analysis and mapping for the determination of COOH groups on oxidized single walled carbon nanotubes. <i>Carbon</i> , 2010, 48, 3391-3398.	10.3	22
42	The different kinetic behavior of two potential photosensitizers for PDT. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 299, 38-43.	3.9	19
43	Application of Metal-Organic Frameworks and Covalent Organic Frameworks as (Photo)Active Material in Hybrid Photovoltaic Technologies. <i>Energies</i> , 2020, 13, 5602.	3.1	19
44	Fluorescence anisotropy analysis of protein-antibody interaction. <i>Dyes and Pigments</i> , 2009, 83, 225-229.	3.7	18
45	High-Throughput Preparation of New Photoactive Nanocomposites. <i>ChemSusChem</i> , 2016, 9, 1279-1289.	6.8	18
46	Mucin binding to therapeutic molecules: The case of antimicrobial agents used in cystic fibrosis. <i>International Journal of Pharmaceutics</i> , 2019, 564, 136-144.	5.2	18
47	Interaction of squaraine dyes with proteins: Looking for more efficient fluorescent turn-on probes. <i>Dyes and Pigments</i> , 2021, 184, 108873.	3.7	18
48	A sensitive and practical fluorimetric test for CNT acidic site determination. <i>Chemical Communications</i> , 2010, 46, 1443.	4.1	16
49	Kinetic study on effect of novel cationic dimeric surfactants for the cleavage of carboxylate ester. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 626-631.	1.9	16
50	Insight into the interaction of inhaled corticosteroids with human serum albumin: A spectroscopic-based study. <i>Journal of Pharmaceutical Analysis</i> , 2018, 8, 37-44.	5.3	16
51	Thiahelicene-grafted halloysite nanotubes: Characterization, biological studies and pH triggered release. <i>Applied Surface Science</i> , 2020, 520, 146351.	6.1	16
52	Roll-to-Roll Atmospheric Plasma Treatment: A Green and Efficient Process to Improve the Hydrophilicity of a PET Surface. <i>ChemSusChem</i> , 2010, 3, 591-596.	6.8	15
53	Thermodynamics and Biological Properties of the Aqueous Solutions of New Glucocationic Surfactants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9360-9370.	2.6	14
54	Catalytic hydrolysis of phosphodiester by nucleophilic ions in gemini micellar media. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 613-621.	1.9	14

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55	Drug release kinetics from biodegradable UV-transparent hollow calcium-phosphate glass fibers. <i>Materials Letters</i> , 2017, 191, 116-118.	2.6	13
56	Squaraine dyes as fluorescent turn-on sensors for the detection of porcine gastric mucin: A spectroscopic and kinetic study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 205, 111838.	3.8	13
57	Synthesis, Physicochemical Characterization, and Interaction with DNA of Long Alkyl Chain Gemini Pyridinium Surfactants. <i>ChemPlusChem</i> , 2015, 80, 952-962.	2.8	12
58	Is the counterion responsible for the unusual thermodynamic behaviour of the aqueous solutions of gemini bispyridinium surfactants?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 249-254.	4.7	11
59	Electrolyte containing lithium cation in squaraine-sensitized solar cells: interactions and consequences for performance and charge transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27670-27681.	2.8	11
60	Sonodynamic Treatment Induces Selective Killing of Cancer Cells in an In Vitro Co-Culture Model. <i>Cancers</i> , 2021, 13, 3852.	3.7	11
61	ZnO Nanowires for Dye Sensitized Solar Cells. , 0, , .		10
62	Solution Thermodynamics of highly fluorinated gemini bispyridinium surfactants for biomedical applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 236-242.	4.7	9
63	Solid silica nanoparticles as carriers of fluorescent squaraine dyes in aqueous media: Toward a molecular engineering approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 123-130.	4.7	9
64	A transient kinetic study between signaling proteins: the case of the MEK-ERK interaction. <i>Chemical Science</i> , 2011, 2, 1804.	7.4	8
65	Photodynamic activity of thiophene-derived lysosome-specific dyes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 16-22.	3.8	7
66	Nanomaterial-protein interactions: the case of pristine and functionalized carbon nanotubes and porcine gastric mucin. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	7
67	A multi-technique comparison of the electronic properties of pristine and nitrogen-doped polycrystalline SnO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22617-22627.	2.8	7
68	Polymethine dyes-loaded solid lipid nanoparticles (SLN) as promising photosensitizers for biomedical applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 271, 120909.	3.9	7
69	Synthesis, optical characterization and crystal and molecular X-ray structure of a phenylazojulolidine derivative. <i>Dyes and Pigments</i> , 2012, 92, 1177-1183.	3.7	6
70	Unveiling the interaction between PDT active squaraines with ctDNA: A spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 250, 119224.	3.9	6
71	Sodium Hydroxide Pretreatment as an Effective Approach to Reduce the Dye/Holes Recombination Reaction in P-Type DSCs. <i>Frontiers in Chemistry</i> , 2019, 7, 99.	3.6	5
72	Spectroscopic investigation of squaraine dyes. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4

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73	Water based surfactant-assisted synthesis of thienylpyridines and thienylbipyridine intermediates. <i>Dyes and Pigments</i> , 2017, 137, 468-479.	3.7	4
74	Multivariate analysis applied to Raman mapping of dye-functionalized carbon nanotubes: a novel approach to support the rational design of functional nanostructures. <i>Analyst</i> , The, 2015, 140, 5754-5763.	3.5	3
75	Is it possible to study the kinetic parameters of interaction between PNA and parallel and antiparallel DNA by stopped-flow fluorescence?. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 163, 296-302.	3.8	1
76	Low-Cost Electricity Production from Sunlight: Third-Generation Photovoltaics and the Dye-Sensitized Solar Cell. , 2016, , 93-153.		0
77	Hollow resorbable fiber for combined light and drug delivery: fiber development and analysis of release kinetics. , 2017, , .		0
78	PCA and DOE analysis of intercalation yield into hydroxalates by liquid-assisted grinding. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s637-s637.	0.3	0
79	PCA and DOE analysis of intercalation yield into hydroxalates by liquid-assisted grinding. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s275-s275.	0.3	0
80	Near Infra-Red Dyes in Dye-Sensitized Solar Cells: from Panchromatic Absorption to Completely Transparent DSSCs. , 0, , .		0
81	Ultrafast spectroscopy of transparent dye-sensitized solar cells designed for the near-infrared. , 2020, , .		0
82	Molecular insight into drugs binding to ctDNA: the fluorescence fast kinetic analysis of diclofenac and pentamidine. <i>Monatshefte für Chemie</i> , 2022, 153, 105-111.	1.8	0
83	Toward non-intrusive BIPV: strategies for NIR-selective DSSCs. , 0, , .		0
84	Effect of Out-of-Plane Alkyl Chains in Dye-Sensitized Solar Cell Efficiency: a Structure-Property Relationship in Novel Perimidine-Based Squaraine Dyes. , 0, , .		0
85	Insights on component optimization to reach color neutral and highly transparent near-infrared dye sensitized solar cells. , 0, , .		0