

Vanderlei Gageiro Machado

List of Publications by Year in descending order

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84
papers

1,876
citations

218677

26
h-index

289244

40
g-index

85
all docs

85
docs citations

85
times ranked

1861
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyridinium <i>N</i> -Phenolate Betaine Dyes. <i>Chemical Reviews</i> , 2014, 114, 10429-10475.	47.7	244
2	Solute-solvent and solvent-solvent interactions in the preferential solvation of Brooker's merocyanine in binary solvent mixtures. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 420-427.	1.9	76
3	Self-assembly in self-organized inorganic systems: a view of programmed metallosupramolecular architectures. <i>Journal of the Brazilian Chemical Society</i> , 2001, 12, 431.	0.6	63
4	Solute-solvent and solvent-solvent interactions in the preferential solvation of 4-[4-(dimethylamino)styryl]-1-methylpyridinium iodide in 24 binary solvent mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 535-542.	3.9	59
5	Optical Chemosensor for the Detection of Cyanide in Water Based On Ethyl(hydroxyethyl)cellulose Functionalized with Brooker's Merocyanine. <i>Analytical Chemistry</i> , 2014, 86, 4653-4656.	6.5	57
6	Preferential Solvation of a Hydrophobic Probe in Binary Mixtures Comprised of a Nonprotic and a Hydroxylic Solvent: A View of Solute-Solvent and Solvent-Solvent Interactions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8820-8826.	2.5	56
7	An anionic chromogenic sensor based on the competition between the anion and a merocyanine solvatochromic dye for calix[4]pyrrole as a receptor site. <i>Tetrahedron Letters</i> , 2007, 48, 4547-4551.	1.4	55
8	Nitro-Substituted 4-[(Phenylmethylene)imino]phenolates: Solvatochromism and Their Use as Solvatochromic Switches and as Probes for the Investigation of Preferential Solvation in Solvent Mixtures. <i>Journal of Organic Chemistry</i> , 2012, 77, 10668-10679.	3.2	52
9	The Fluorosolvatochromism of Brooker's Merocyanine in Pure and in Mixed Solvents. <i>Journal of Fluorescence</i> , 2006, 16, 77-86.	2.5	49
10	Propriedades e aplicações recentes das ciclodextrinas. <i>Química Nova</i> , 2008, 31, 360-368.	0.3	45
11	Preferential solvation of Brooker's merocyanine in binary solvent mixtures composed of formamides and hydroxylic solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 951-958.	3.9	43
12	Chromogenic Chemodosimeter for Highly Selective Detection of Cyanide in Water and Blood Plasma Based on Si-O Cleavage in the Micellar System. <i>Analytical Chemistry</i> , 2015, 87, 362-366.	6.5	42
13	Chromogenic anionic chemosensors based on protonated merocyanine solvatochromic dyes: Influence of the medium on the quantitative and naked-eye selective detection of anionic species. <i>Dyes and Pigments</i> , 2009, 82, 187-195.	3.7	41
14	Anionic chromogenic chemosensors highly selective for fluoride or cyanide based on 4-(4-Nitrobenzylideneamine)phenol. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 1488-1500.	0.6	40
15	Merocyanine solvatochromic dyes in the study of synergistic effects in mixtures of chloroform with hydrogen-bond accepting solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 71, 1704-1711.	3.9	37
16	Synthesis and Solvatochromism of Substituted 4-(Nitrostyryl)phenolate Dyes. <i>Journal of Organic Chemistry</i> , 2015, 80, 7971-7983.	3.2	37
17	Interpretation of the halochromism of pyridiniophenoxide dyes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 201.	1.7	36
18	An Easy and Versatile Experiment to Demonstrate Solvent Polarity Using Solvatochromic Dyes. <i>Journal of Chemical Education</i> , 2001, 78, 649.	2.3	34

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19	Solvent effects in the interaction of methyl- β -cyclodextrin with solvatochromic merocyanine dyes. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1751.	2.8	32
20	Chromogenic anionic chemosensors based on protonated merocyanine solvatochromic dyes in trichloromethane and in trichloromethane/water biphasic system. <i>Tetrahedron</i> , 2009, 65, 4239-4248.	1.9	30
21	Characterization of Brazilian oil shale byproducts planned for use as soil conditioners for food and agro-energy production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 112-117.	5.5	29
22	Quimiossensores cromogênicos e fluorogênicos para a detecção de analitos aniônicos. <i>Quimica Nova</i> , 2008, 31, 2134-2146.	0.3	29
23	Ion-Dipole SN2 Reaction in Acetone/Water Mixtures. Electrostatic and Specific Solute/Solvent Interactions. <i>Journal of Organic Chemistry</i> , 2001, 66, 1163-1170.	3.2	28
24	Anionic optical devices based on 4-(nitrostyryl)phenols for the selective detection of fluoride in acetonitrile and cyanide in water. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1036-1048.	7.8	28
25	Spectroscopic investigation of hard and soft metal binding sites in synthetic melanin. <i>Inorganica Chimica Acta</i> , 2003, 356, 243-248.	2.4	27
26	Solvatochromic behavior of dyes with dimethylamino electron-donor and nitro electron-acceptor groups in their molecular structure. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 250-260.	1.9	27
27	Use of the interaction of a boronic acid with a merocyanine to develop an anionic colorimetric assay. <i>Tetrahedron Letters</i> , 2007, 48, 3467-3470.	1.4	26
28	Properties of aqueous solutions of hydrophobically modified polyethylene imines in the absence and presence of sodium dodecylsulfate. <i>Journal of Colloid and Interface Science</i> , 2012, 370, 94-101.	9.4	24
29	Quality analysis of automotive fuel using solvatochromic probes. <i>Fuel</i> , 2006, 85, 1494-1497.	6.4	23
30	Criterious Preparation and Characterization of Earthworm-composts in View of Animal Waste Recycling: Part II. A Synergistic Utilization of EPR and ^1H NMR Spectroscopies on the Characterization of Humic Acids from Vermicomposts. <i>Journal of the Brazilian Chemical Society</i> , 2001, 12, 734.	0.6	21
31	An anionic chromogenic sensor based on protonated Reichardt's pyridiniophenolate. <i>Tetrahedron Letters</i> , 2006, 47, 9339-9342.	1.4	21
32	Solvatochromic behavior of 1-(p-dimethylaminophenyl)-2-nitroethylene in 24 binary solvent mixtures composed of amides and hydroxylic solvents. <i>Journal of Molecular Liquids</i> , 2009, 150, 9-15.	4.9	21
33	Solvatochromism and preferential solvation of aryliminomethylpyridinium iodines in binary mixtures. <i>Journal of Physical Organic Chemistry</i> , 1997, 10, 731-736.	1.9	19
34	A química dos α -steres de fosfato. <i>Quimica Nova</i> , 2003, 26, 745-753.	0.3	17
35	Optical devices for the detection of cyanide in water based on ethyl(hydroxyethyl)cellulose functionalized with perichromic dyes. <i>Carbohydrate Polymers</i> , 2017, 157, 1548-1556.	10.2	17
36	Solvatochromic behavior of substituted 4-(nitrostyryl)phenolate dyes in pure solvents and in binary solvent mixtures composed of water and alcohols. <i>Journal of Molecular Liquids</i> , 2018, 264, 327-336.	4.9	17

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37	Reverse solvatochromism in solvent binary mixtures: a case study using a 4-(nitrostyryl)phenolate as a probe. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20266-20269.	2.8	16
38	Anionic chromogenic chemosensors highly selective for cyanide based on the interaction of phenyl boronic acid and solvatochromic dyes. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 644-652.	7.8	15
39	Interaction of Cyclodextrins with Brooker's Merocyanine in Aqueous Solution. <i>Spectroscopy Letters</i> , 2009, 42, 35-41.	1.0	14
40	A simple and efficient anionic chromogenic chemosensor based on 2,4-dinitrodiphenylamine in dimethyl sulfoxide and in dimethyl sulfoxide-water mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 799-806.	3.9	14
41	Ascorbic acid-based quinoxaline derivative as a chromogenic chemosensor for Cu ²⁺ . <i>Inorganic Chemistry Communication</i> , 2016, 70, 71-74.	3.9	14
42	An anionic chromogenic chemosensor based on 4-(4-nitrobenzylideneamine)-2,6-diphenylphenol for selective detection of cyanide in acetonitrile-water mixtures. <i>Arkivoc</i> , 2011, 2010, 146-162.	0.5	14
43	Interaction of protonated merocyanine dyes with amines in organic solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 745-753.	3.9	13
44	Structure-behavior study of a family of σ -hybrid cyanine dyes which exhibit inverted solvatochromism. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32256-32265.	2.8	13
45	Quinoxaline-based chromogenic and fluorogenic chemosensors for the detection of metal cations. <i>Chemical Papers</i> , 2021, 75, 1775-1793.	2.2	13
46	Preferential solvation index as a tool in the analysis of the behavior of solvatochromic probes in binary solvent mixtures. <i>Journal of Molecular Liquids</i> , 2021, 328, 115450.	4.9	13
47	Properties of aqueous solutions of lentinan in the absence and presence of zwitterionic surfactants. <i>Carbohydrate Polymers</i> , 2013, 98, 1-7.	10.2	12
48	A novel strategy for chromogenic chemosensors highly selective toward cyanide based on its reaction with 4-(2,4-dinitrobenzylideneamino)benzenes or 2,4-dinitrostilbenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1491-1499.	3.9	12
49	Understanding Solvation: Comparison of Reichardt's Solvatochromic Probe and Related Molecular σ -Core Structures. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2213-2220.	1.9	12
50	Preferential solvation of a λ^2 -sensitive dye in binary mixtures of a non-protic and a hydroxylic solvent. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 865-868.	1.7	11
51	Optical Chemosensors and Chemodosimeters for Anion Detection Based on Merrifield Resin Functionalized with Brooker's Merocyanine Derivatives. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1757-1768.	4.4	11
52	Electrospun blends comprised of poly(methyl methacrylate) and ethyl(hydroxyethyl)cellulose functionalized with perichromic dyes. <i>Carbohydrate Polymers</i> , 2020, 236, 115991.	10.2	11
53	The Halochromism of the 1-Methyl-8-Oxyquinolinium Dye. <i>Spectroscopy Letters</i> , 1998, 31, 359-367.	1.0	10
54	Malononitrile-derivative chromogenic devices for the detection of cyanide in water. <i>Journal of Molecular Liquids</i> , 2016, 223, 811-818.	4.9	10

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55	Reverse Solvatochromism of Imine Dyes Comprised of 5-Nitrofuranyl or 5-Nitrothiophenyl as Electron Acceptor and Phenolate as Electron Donor. <i>Chemistry - A European Journal</i> , 2018, 24, 9364-9376.	3.3	10
56	Synthesis of anionic chemodosimeters based on silylated pyridinium N-phenolate betaine dyes. <i>Tetrahedron Letters</i> , 2015, 56, 4733-4736.	1.4	9
57	Thermohalochromism of phenolate dyes conjugated with nitro-substituted aryl groups. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 556-561.	3.9	9
58	Chromogenic and fluorogenic chemodosimeter derived from Meldrum's acid detects cyanide and sulfide in aqueous medium. <i>Journal of Molecular Liquids</i> , 2019, 282, 142-153.	4.9	9
59	Desolvated phosphate ions as acyl acceptors in dipolar aprotic media. A non-enzymatic model for formation of energy-rich acyl phosphates. <i>Perkin Transactions II RSC</i> , 2000, , 169-173.	1.1	8
60	Applications of a preferential solvation index (PSI) for the comparison of binary mixtures with ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 343, 117644.	4.9	8
61	Synthesis of 1,8-Naphthyridines and Their Application in the Development of Anionic Fluorogenic Chemosensors. <i>Journal of Fluorescence</i> , 2012, 22, 1033-1046.	2.5	7
62	Solvatochromism of new substituted 4-[(E)-(4-nitrophenyl)diazenyl]phenolate dyes. <i>Journal of Molecular Liquids</i> , 2020, 301, 112330.	4.9	7
63	Use of Nonideality Parameters for the Analysis of the Thermodynamic Properties of Binary Mixtures. <i>ACS Omega</i> , 2021, 6, 16553-16564.	3.5	7
64	Compostos fosfatados ricos em energia. <i>Quimica Nova</i> , 1999, 22, 351-357.	0.3	6
65	Solvatochromism of dyes inspired in Effenberger's probe. <i>Dyes and Pigments</i> , 2021, 184, 108757.	3.7	6
66	Acyl transfer reactions in dipolar aprotic medium: desolvated phosphate ion as acyl acceptor in the formation of energy-rich phosphate compounds. <i>Chemical Communications</i> , 1997, , 1917.	4.1	5
67	A simple protocol for the visual discrimination of natural cyclodextrins in aqueous solution using perichromic probes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1600-1606.	3.9	5
68	Properties of polyplexes formed through interaction between hydrophobically-modified poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.7	5
69	Design of Hybrid Electrospun Nanofibers Comprising a Xerogel Functionalized with a Fluorescent Dye for Application as Optical Detection Device. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10586-10597.	3.1	5
70	Electrospun Nanofibers of Immiscible Blends Containing a Fluorescence Dye: Direct Investigation of Polymer Domains. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4647-4657.	4.4	5
71	The use of a preferential solvation index (PSI) for the comparison of halochromic systems. <i>Journal of Molecular Liquids</i> , 2021, 334, 115944.	4.9	5
72	Reverse solvatochromism in a family of probes having 2,6-di-tert-butylphenolate as electron donor and 4-nitrophenyl as electron acceptor groups. <i>Dyes and Pigments</i> , 2022, 203, 110376.	3.7	5

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73	Inorganic self-assembly through sequential complexation in the formation of bimetallic and trimetallic architectures from multisite ligands based on 5,5'-disubstituted 2,2'-bipyridines. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 777-789.	0.6	4
74	Chromogenic chemodosimeter based on a silylated azo compound detects cyanide in water and cassava. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119950.	3.9	4
75	ASSOCIATION OF BRANCHED POLYETHYLENE IMINE WITH SURFACTANTS IN AQUEOUS SOLUTION. <i>Quimica Nova</i> , 2015, , .	0.3	4
76	BIODEGRADABLE NANOPARTICLES OBTAINED FROM ZEIN AS A DRUG DELIVERY SYSTEM FOR TERPINEN-4-OL. <i>Quimica Nova</i> , 2014, , .	0.3	3
77	One-pot synthesis and structural elucidation of polyfunctionalized quinoxalines and their use as chromogenic chemosensors for ionic species. <i>Journal of Molecular Structure</i> , 2019, 1195, 936-943.	3.6	3
78	Binary mixtures with deep eutectic Solvents: Comparing properties with a Non-Ideality approach. <i>Journal of Molecular Liquids</i> , 2022, 359, 119259.	4.9	3
79	Spectrometric and kinetics studies involving anionic chromogenic chemodosimeters based on silylated imines in acetonitrile or acetonitrile-water mixtures. <i>RSC Advances</i> , 2016, 6, 101853-101861.	3.6	2
80	4-(Pyren-1-ylimino)methylphenol and its Silylated Derivative as Chromogenic Chemosensors Highly Selective for Fluoride or Cyanide. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	1
81	SELECTIVE DETECTION OF FLUORIDE BASED ON A PYRIDINIUM-PHENOLATE-CALIX[4]PYRROLE DISPLACEMENT ASSAY: AN UNDERGRADUATE LABORATORY EXPERIMENT. <i>Quimica Nova</i> , 2014, , .	0.3	1
82	A non-enzymatic model based on an acyl transfer reaction for the formation of energy-rich acetyl phosphate in organic solvents and in a biphasic system. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 735-742.	1.9	0
83	A Kinetic Investigation of Regioselective Solvation of a Solvatochromic Dye in Aqueous Alcohols. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 803-810.	1.6	0
84	Chromogenic Chemosensors Based on Phenolic Imines for the Detection of Alkylamines and Lidocaine in Water and in the Vapor Phase. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0