

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	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
2	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
3	Solvatochromism of dyes inspired in Effenberger's probe. <i>Dyes and Pigments</i> , 2021, 184, 108757.	3.7	6
4	Quinoxaline-based chromogenic and fluorogenic chemosensors for the detection of metal cations. <i>Chemical Papers</i> , 2021, 75, 1775-1793.	2.2	13
5	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
6	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
7	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
8	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
9	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
10	Solvatochromism of new substituted 4-[(E)-(4-nitrophenyl)diazenyl]phenolate dyes. <i>Journal of Molecular Liquids</i> , 2020, 301, 112330.	4.9	7
11	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
12	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
13	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
14	Optical Chemosensors and Chemodosimeters for Anion Detection Based on Merrifield Resin Functionalized with Brookers Merocyanine Derivatives. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1757-1768.	4.4	11
15	Understanding Solvation: Comparison of Reichardt's Solvatochromic Probe and Related Molecular Core-Structures. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2213-2220.	1.9	12
16	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
17	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
18	Reverse Solvatochromism of Imine Dyes Comprised of 5-Nitrofuran-2-yl or 5-Nitrothiophen-2-yl as Electron Acceptor and Phenolate as Electron Donor. <i>Chemistry - A European Journal</i> , 2018, 24, 9364-9376.	3.3	10

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19	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
20	Properties of polyplexes formed through interaction between hydrophobically-modified poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.7	5
21	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
22	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
23	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
24	Malononitrileâ€“derivative chromogenic devices for the detection of cyanide in water. <i>Journal of Molecular Liquids</i> , 2016, 223, 811-818.	4.9	10
25	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
26	Spectrometric and kinetics studies involving anionic chromogenic chemodosimeters based on silylated imines in acetonitrile or acetonitrileâ€“water mixtures. <i>RSC Advances</i> , 2016, 6, 101853-101861.	3.6	2
27	Structureâ€“behavior study of a family of â€œhybrid cyanineâ€•dyes which exhibit inverted solvatochromism. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32256-32265.	2.8	13
28	Ascorbic acid-based quinoxaline derivative as a chromogenic chemosensor for Cu 2+. <i>Inorganic Chemistry Communication</i> , 2016, 70, 71-74.	3.9	14
29	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
30	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
31	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
32	Chromogenic Chemodosimeter for Highly Selective Detection of Cyanide in Water and Blood Plasma Based on Siâ€“O Cleavage in the Micellar System. <i>Analytical Chemistry</i> , 2015, 87, 362-366.	6.5	42
33	Synthesis and Solvatochromism of Substituted 4-(Nitrostyryl)phenolate Dyes. <i>Journal of Organic Chemistry</i> , 2015, 80, 7971-7983.	3.2	37
34	Synthesis of anionic chemodosimeters based on silylated pyridinium N-phenolate betaine dyes. <i>Tetrahedron Letters</i> , 2015, 56, 4733-4736.	1.4	9
35	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
36	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

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37	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
38	ASSOCIATION OF BRANCHED POLYETHYLENE IMINE WITH SURFACTANTS IN AQUEOUS SOLUTION. <i>Quimica Nova</i> , 2015, , .	0.3	4
39	BIODEGRADABLE NANOPARTICLES OBTAINED FROM ZEIN AS A DRUG DELIVERY SYSTEM FOR TERPINEN-4-OL. <i>Quimica Nova</i> , 2014, , .	0.3	3
40	Pyridinium <i>N</i> -Phenolate Betaine Dyes. <i>Chemical Reviews</i> , 2014, 114, 10429-10475.	47.7	244
41	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
42	SELECTIVE DETECTION OF FLUORIDE BASED ON A PYRIDINIUM-N-PHENOLATE-CALIX[4]PYRROLE DISPLACEMENT ASSAY: AN UNDERGRADUATE LABORATORY EXPERIMENT. <i>Quimica Nova</i> , 2014, , .	0.3	1
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	Interaction of Cyclodextrins with Brooker's Merocyanine in Aqueous Solution. <i>Spectroscopy Letters</i> , 2009, 42, 35-41.	1.0	14
54	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

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55	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
56	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
57	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
58	Propriedades e aplica��es recentes das ciclodextrinas. <i>Quimica Nova</i> , 2008, 31, 360-368.	0.3	45
59	Quimiossensores cromog�nicos e fluorog�nicos para a detec��o de analitos ani�nicos. <i>Quimica Nova</i> , 2008, 31, 2134-2146.	0.3	29
60	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
61	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
62	Quality analysis of automotive fuel using solvatochromic probes. <i>Fuel</i> , 2006, 85, 1494-1497.	6.4	23
63	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
64	An anionic chromogenic sensor based on protonated Reichardt's pyridiniophenolate. <i>Tetrahedron Letters</i> , 2006, 47, 9339-9342.	1.4	21
65	The Fluorosolvatochromism of Brooker's Merocyanine in Pure and in Mixed Solvents. <i>Journal of Fluorescence</i> , 2006, 16, 77-86.	2.5	49
66	Solvent effects in the interaction of methyl-�2-cyclodextrin with solvatochromic merocyanine dyes. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1751.	2.8	32
67	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
68	Spectroscopic investigation of hard and soft metal binding sites in synthetic melanin. <i>Inorganica Chimica Acta</i> , 2003, 356, 243-248.	2.4	27
69	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
70	A qu�mica dos �steres de fosfato. <i>Quimica Nova</i> , 2003, 26, 745-753.	0.3	17
71	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
72	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

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73	An Easy and Versatile Experiment to Demonstrate Solvent Polarity Using Solvatochromic Dyes. Journal of Chemical Education, 2001, 78, 649.	2.3	34
74	Ion-Dipole SN2 Reaction in Acetone~Water Mixtures. Electrostatic and Specific Solute~Solvent Interactions. Journal of Organic Chemistry, 2001, 66, 1163-1170.	3.2	28
75	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. Journal of the Brazilian Chemical Society, 2001, 12, 734.	0.6	21
76	Self-assembly in self-organized inorganic systems: a view of programmed metallosupramolecular architectures. Journal of the Brazilian Chemical Society, 2001, 12, 431.	0.6	63
77	Desolvated phosphate ions as acyl acceptors in dipolar aprotic media. A non-enzymatic model for formation of "energy-rich" acyl phosphates. Perkin Transactions II RSC, 2000, , 169-173.	1.1	8
78	Compostos fosfatados ricos em energia. Quimica Nova, 1999, 22, 351-357.	0.3	6
79	The Halochromism of the 1-Methyl-8-Oxyquinolinium Dye. Spectroscopy Letters, 1998, 31, 359-367.	1.0	10
80	Acyl transfer reactions in dipolar aprotic medium: desolvated phosphate ion as acyl acceptor in the formation of energy-rich phosphate compounds. Chemical Communications, 1997, , 1917.	4.1	5
81	Solvatochronism and preferential solvation of aryliminomethylpyridinium iodines in binary mixtures. Journal of Physical Organic Chemistry, 1997, 10, 731-736.	1.9	19
82	Preferential solvation of a λ^2 -sensitive dye in binary mixtures of a non-protic and a hydroxylic solvent. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 865-868.	1.7	11
83	Interpretation of the halochromism of pyridiniophenoxide dyes. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 201.	1.7	36
84	Chromogenic Chemosensors Based on Phenolic Imines for the Detection of Alkylamines and Lidocaine in Water and in the Vapor Phase. Journal of the Brazilian Chemical Society, 0, , .	0.6	0