

# Nikolay O Mchedlov-Petrosyan

## List of Publications by Year in descending order

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104  
papers

2,138  
citations

236925

25  
h-index

276875

41  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fullerenes in Liquid Media: An Unsettling Intrusion into the Solution Chemistry. <i>Chemical Reviews</i> , 2013, 113, 5149-5193.	47.7	172
2	Colloidal dispersions of fullerene C <sub>60</sub> in water: some properties and regularities of coagulation by electrolytes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 4343-4346.	1.7	132
3	Aggregation of Rhodamine B in Water. <i>Russian Journal of Applied Chemistry</i> , 2004, 77, 414-422.	0.5	88
4	Protolytic equilibrium in lyophilic nanosized dispersions: Differentiating influence of the pseudophase and salt effects. <i>Pure and Applied Chemistry</i> , 2008, 80, 1459-1510.	1.9	79
5	Dissociation, tautomerism and electroreduction of xanthene and sulfonephthalein dyes in N,N-dimethylformamide and other solvents. <i>Journal of Physical Organic Chemistry</i> , 2003, 16, 380-397.	1.9	77
6	Title is missing!. <i>Journal of Fluorescence</i> , 2003, 13, 235-248.	2.5	73
7	Influence of the cetyltrimethylammonium chloride micellar pseudophase on the protolytic equilibria of oxyxanthene dyes at high bulk phase ionic strength. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 629.	1.7	66
8	Extraordinary character of the solvent influence on protolytic equilibria: inversion of the fluorescein ionization constants in H <sub>2</sub> O/DMSO mixtures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 3025-3032.	1.7	58
9	Interfacial properties of cetyltrimethylammonium-coated SiO <sub>2</sub> nanoparticles in aqueous media as studied by using different indicator dyes. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 712-722.	9.4	57
10	Fullerenes in molecular liquids. Solutions in "good" solvents: Another view. <i>Journal of Molecular Liquids</i> , 2011, 161, 1-12.	4.9	51
11	Colloidal properties and behaviors of 3 nm primary particles of detonation nanodiamonds in aqueous media. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16186-16203.	2.8	46
12	Spectroscopic study of acid-base ionization and tautomerism of fluorescein dyes in direct microemulsions at high bulk ionic strength. <i>Journal of Molecular Liquids</i> , 2009, 145, 188-196.	4.9	38
13	Ionization and Tautomerism of Fluorescein, Rhodamine B, N,N-Diethylrhodol and Related Dyes in Mixed and Nonaqueous Solvents. <i>Dyes and Pigments</i> , 1994, 24, 11-35.	3.7	36
14	Ionic equilibria in microheterogeneous systems Protolytic behaviour of indicator dyes in mixed phosphatidylcholine-diphosphatidylglycerol liposomes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2117-2125.	1.7	36
15	Ionization and Tautomerism of Chloro-Derivatives of Fluorescein in Water and Aqueous Acetone. <i>Dyes and Pigments</i> , 1992, 18, 179-198.	3.7	35
16	Interaction between colloidal particles of C <sub>60</sub> hydrosol and cationic dyes. <i>Chemical Physics Letters</i> , 2001, 341, 237-244.	2.6	34
17	2,4,5,7-Tetranitrofluorescein in solutions: novel type of tautomerism in hydroxyxanthene series as detected by various spectral methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2747-2760.	3.9	33
18	Ionization and tautomerism of oxyxanthene dyes in aqueous butanol. <i>Dyes and Pigments</i> , 1999, 43, 33-46.	3.7	31

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19	Counterion-Induced Transformations of Cationic Surfactant Micelles Studied by Using the Displacing Effect of Solvatochromic Pyridinium-N-Phenolate Betaine Dyes. <i>Langmuir</i> , 2005, 21, 7090-7096.	3.5	30
20	A novel probe for determination of electrical surface potential of surfactant micelles: N,N'-di-n-octadecylrhodamine. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 332-344.	1.9	29
21	Medium Effects on the Prototropic Equilibria of Fluorescein Fluoro Derivatives in True and Organized Solution. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4551-4564.	2.6	29
22	Ionization and tautomerism of methyl fluorescein and related dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 151-161.	3.9	28
23	Influence of non-ionic polymers on solvent properties of water as detected by studies of acid-base equilibria of sulphonephthalein and fluorescein dyes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 931-938.	1.7	27
24	Unusual findings on studying surfactant solutions: displacing solvatochromic pyridinium N-phenolate towards outlying areas of rod-like micelles?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 205, 215-229.	4.7	27
25	Nature of Cationic Poly(propylenimine) Dendrimers in Aqueous Solutions as Studied Using Versatile Indicator Dyes. <i>Langmuir</i> , 2008, 24, 5689-5699.	3.5	27
26	Modification of the properties of NaDS micellar solutions by adding electrolytes and non-electrolytes: investigations with decyl eosin as a pKa-probe. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 193, 207-219.	4.7	25
27	Character of Localization and Microenvironment of Solvatochromic Reichardt's Betaine Dye in Sodium Dodecyl Sulfate and Cetyltrimethylammonium Bromide Micelles: Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2017, 33, 8342-8352.	3.5	25
28	The influence of $\beta$ -cyclodextrin on acid-base and tautomeric equilibrium of fluorescein dyes in aqueous solution. <i>Carbohydrate Research</i> , 2010, 345, 1882-1890.	2.3	24
29	The peculiar behavior of fullerene C <sub>60</sub> in mixtures of good and polar solvents: Colloidal particles in the toluene-methanol mixtures and some other systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 631-637.	4.7	24
30	Molecular spectroscopy studies of solvent properties of dispersed water pools: Fluorescein and 2,7-dichlorofluorescein in reversed AOT-based microemulsions. <i>Journal of Molecular Liquids</i> , 2010, 157, 105-112.	4.9	22
31	Protolytic Properties of Thiofluorescein and Its Derivatives. <i>Russian Journal of General Chemistry</i> , 2002, 72, 785-792.	0.8	19
32	Contemporary methods for the experimental determination of dissociation constants of organic acids in solutions. <i>Russian Journal of General Chemistry</i> , 2009, 79, 1859-1889.	0.8	19
33	Protolytic properties of dyes embedded in gelatin films. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 857-866.	0.6	19
34	Absorption, fluorescence, and acid-base equilibria of rhodamines in micellar media of sodium dodecyl sulfate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 138-144.	3.9	18
35	Fullerenes in Aqueous Media: A Review. <i>Theoretical and Experimental Chemistry</i> , 2020, 55, 361-391.	0.8	18
36	A dibasic acid with reversed order of the stepwise ionization constants: 2,7-dichlorofluorescein in the ternary solvent mixture benzene-ethanol-water. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 365-375.	1.9	17

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37	Protolytic equilibria of fluorescein halo derivatives in aqueous-organic systems. Russian Journal of General Chemistry, 2006, 76, 1607-1617.	0.8	17
38	The influence of cationic tetrapropoxycalix[4]arene choline on protolytic equilibria of acid-base indicators in aqueous solutions. Journal of Molecular Liquids, 2009, 145, 197-203.	4.9	17
39	Towards better understanding of C60organosols. Physical Chemistry Chemical Physics, 2016, 18, 2517-2526.	2.8	17
40	Binding of sulfonephthalein anions to the micelles of an anionic surfactant. Journal of Molecular Liquids, 2000, 87, 75-84.	4.9	16
41	Colloidal Nature of Cationic Calix[6]arene Aqueous Solutions. Journal of Physical Chemistry C, 2012, 116, 10245-10259.	3.1	16
42	the surfactant-induced formation of J- and H-aggregates in aqueous pseudoisocyanine solutions. Dyes and Pigments, 1992, 19, 33-40.	3.7	15
43	A new application of Rhodamine 200 B (Sulfo Rhodamine B). Dyes and Pigments, 1995, 28, 7-18.	3.7	15
44	Fluorescent dye N,N'-dioctadecylrhodamine as a new interfacial acid-base indicator. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 1125-1129.	3.9	15
45	In search of an optimal acid-base indicator for examining surfactant micelles: Spectrophotometric studies and molecular dynamics simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 565, 97-107.	4.7	15
46	Kinetics of alkaline fading of methyl violet in micellar solutions of surfactants: Comparing Piszkiwicz's, Berezin's, and pseudophase ion-exchange models. International Journal of Chemical Kinetics, 2019, 51, 83-94.	1.6	15
47	Effect of the solvent on the absorption spectra and protonation of fluorescein dye anions. Russian Journal of Physical Chemistry A, 2007, 81, 112-115.	0.6	14
48	A new application of solvatochromic pyridinium-N-phenolate betaine dyes: examining the electrophilicity of lanthanide shift reagents. Tetrahedron Letters, 2010, 51, 4347-4349.	1.4	14
49	Micellar rate effects in the alkaline fading of crystal violet in the presence of various surfactants. Journal of Molecular Liquids, 2015, 201, 77-82.	4.9	14
50	Micellar rate effects on the kinetics of nitrophenol violet anion reaction with HO <sup>-</sup> ion: Comparing Piszkiwicz's, Berezin's, and Pseudophase Ion-Exchange models. Journal of Molecular Liquids, 2019, 277, 70-77.	4.9	14
51	The difference between the aggregates of short-tailed and long-tailed cationic calix[4]arene in water as detected using fluorescein dyes. Journal of Molecular Liquids, 2014, 193, 232-238.	4.9	13
52	Aminofluoresceins Versus Fluorescein: Peculiarity of Fluorescence. Journal of Physical Chemistry A, 2019, 123, 8860-8870.	2.5	13
53	Solubility and fluorescence lifetime of 2,5-diphenyloxazole and 1,4-bis(5-phenyl-oxazolyl-2)benzene in water-ethanol and water-acetone solvent systems. Journal of Molecular Liquids, 2009, 145, 167-172.	4.9	12
54	In Search for the Phenolate-Monoanion of Fluorescein in Solution. Chemistry Letters, 2010, 39, 30-31.	1.3	12

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55	The influence of 1-butanol and electrolytic background on the properties of CTAB micelles as examined using a set of indicator dyes. <i>Journal of Molecular Liquids</i> , 2014, 199, 376-384.	4.9	12
56	The influence of the micellar pseudophase of the double-chained cationic surfactant di-n-tetradecyldimethylammonium bromide on the absorption spectra and protolytic equilibrium of indicator dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 476, 57-67.	4.7	12
57	Acid-base dissociation and tautomerism of two aminofluorescein dyes in solution. <i>Journal of Molecular Liquids</i> , 2017, 225, 696-705.	4.9	12
58	Probing of chemically modified silica surfaces by solvatochromic pyridinium N-phenolate betaine indicators. <i>Colloid Journal</i> , 2006, 68, 511-517.	1.3	11
59	Association of the picrate ion with cations of various nature in solvents of medium and low relative permittivity. An UV/Vis spectroscopic and conductometric study. <i>Journal of Molecular Liquids</i> , 2009, 145, 158-166.	4.9	11
60	Aminofluoresceins Versus Fluorescein: Ascertained New Unusual Features of Tautomerism and Dissociation of Hydroxyxanthene Dyes in Solution. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8845-8859.	2.5	11
61	Differentiating impact of the AOT-stabilized droplets of water-in-octane microemulsions as examined using halogenated fluoresceins as molecular probes. <i>Journal of Molecular Liquids</i> , 2013, 187, 381-388.	4.9	10
62	Interactions of Nanosized Aggregates of Fullerene C60 with Electrolytes in Methanol: Coagulation and Overcharging of Particles. <i>Langmuir</i> , 2016, 32, 10065-10072.	3.5	10
63	Interaction of Polymethine Dyes with Detonation Nanodiamonds. <i>ChemPhysChem</i> , 2019, 20, 1028-1035.	2.1	10
64	Ionic equilibrium in mixtures of protophobic and protophilic polar non-hydrogen bond donor solvents: acids, salts, and indicators in acetone containing 5 mol% DMSO. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 418-430.	1.9	9
65	Fluorescence of aminofluoresceins as an indicative process allowing one to distinguish between micelles of cationic surfactants and micelle-like aggregates. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 034002.	2.3	9
66	Protolytic Equilibria in Organized Solutions: Ionization and Tautomerism of Fluorescein Dyes and Related Indicators in Cetyltrimethylammonium Chloride Micellar Solutions at High Ionic Strength of the Bulk Phase. <i>Liquids</i> , 2021, 1, 1-24.	2.5	9
67	The Properties of 3 nm-Sized Detonation Diamond from the Point of View of Colloid Science. <i>Ukrainian Journal of Physics</i> , 2015, 60, 932-937.	0.2	9
68	Ionic Equilibria of Chromophoric Reagents in Microemulsions. <i>Journal of Analytical Chemistry</i> , 2003, 58, 1018-1030.	0.9	8
69	3,3-Dinitrophenolsulphonephthalein: an acid-base indicator dye with unusual properties. <i>Coloration Technology</i> , 2017, 133, 135-144.	1.5	8
70	Examining surfactant micelles via acid-base indicators: Revisiting the pioneering Hartley-Roe 1940 study by molecular dynamics modeling. <i>Journal of Molecular Liquids</i> , 2018, 264, 683-690.	4.9	8
71	A new solvatochromic/acid-base indicator for surfactant micellar media: hydrophilic 3-pyridyl substituted pyridinium N-phenolate betaine dye. <i>Journal of Molecular Liquids</i> , 2003, 107, 221-234.	4.9	7
72	Association and transport properties in solvents of medium and low relative permittivity: Quaternary ammonium picrates in acetone-n-hexane mixed solvents. <i>Journal of Molecular Liquids</i> , 2011, 158, 33-37.	4.9	7

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73	Synthesis and crystal structure determination of 2,6-di-tert-butyl-4-(2,4,6-triphenylpyridinium-1-yl)phenolate and its corresponding perchlorate salt. <i>Dyes and Pigments</i> , 2012, 92, 1394-1399.	3.7	7
74	Solvatochromic betaine dyes of different hydrophobicity in ionic surfactant micelles: Molecular dynamics modeling of location character. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 583-592.	4.7	7
75	Computing $pK_a$ Shifts Using Traditional Molecular Dynamics: Example of Acid-Base Indicator Dyes in Organized Solutions. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5852-5865.	5.3	7
76	Diluted and concentrated organosols of fullerene C <sub>60</sub> in the toluene-acetonitrile solvent system as studied by diverse experimental methods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 315-330.	2.1	7
77	Conductivity and Dissociation Constants of Quaternary Ammonium Perchlorates and Picrates in 4-Methyl-pentan-2-one. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 1887-1892.	1.9	6
78	The properties and composition of the SDS-1-butanol mixed micelles as determined via acid-base indicators. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 243-254.	4.7	6
79	The molecular structure of anionic species of 2,4,5,7-tetranitrofluorescein as studied by electrospray ionisation, nuclear magnetic resonance and X-ray techniques. <i>Coloration Technology</i> , 2018, 134, 390-399.	1.5	6
80	Nano-sized bubbles in solution of hydrophobic dyes and the properties of the water/air interface. <i>Journal of Molecular Liquids</i> , 2019, 275, 384-393.	4.9	6
81	Formation, Stability, and Coagulation of Fullerene Organosols: C <sub>70</sub> in Acetonitrile-Toluene Solutions and Related Systems. <i>Langmuir</i> , 2021, 37, 7156-7166.	3.5	6
82	The distribution of the anion and zwitterion forms of methyl orange between the disperse microemulsion pseudophase and continuous water phase. <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 1434-1437.	0.6	5
83	Revisiting tetranitrophenolsulfonephthalein. <i>Coloration Technology</i> , 2015, 131, 236-244.	1.5	5
84	Effect of poly (sodium 4-styrenesulfonate) on the ionization constants of acid-base indicator dyes in aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 527, 132-144.	4.7	5
85	The interaction of the colloidal species in hydrosols of nanodiamond with inorganic and organic electrolytes. <i>Journal of Molecular Liquids</i> , 2019, 283, 849-859.	4.9	5
86	Cluster-cluster interaction in nanodiamond hydrosols by small-angle scattering. <i>Journal of Molecular Liquids</i> , 2022, 354, 118816.	4.9	5
87	Interaction between cationic dyes and colloidal particles in a C <sub>60</sub> hydrosol. <i>Mendeleev Communications</i> , 1999, 9, 63-64.	1.6	4
88	Polymeric Langmuir-Blodgett films containing xanthene dyes. <i>Russian Journal of Applied Chemistry</i> , 2008, 81, 696-703.	0.5	4
89	Acid-base and tautomeric equilibria of fluorescein dyes in water micellar solutions of zwitterionic sulfobetaine surfactant. <i>Russian Journal of General Chemistry</i> , 2009, 79, 1437-1445.	0.8	4
90	Thermodynamics of solubility and solvation of N-cetylpyridinium perchlorate and related compounds in water-propanol-2 system. <i>Journal of Molecular Liquids</i> , 2013, 177, 237-242.	4.9	4

