Airat M Abdrakhmanov

List of Publications by Year
in descending order

32 papers	258 citations	1040056 9 h-index	1058476 14 g-index
32 all docs	32 docs citations	32 times ranked	92 citing authors

#	Article	IF	Citations
1	Single-Bubble Sonoluminescence of Colloidal Suspensions as a New Technique for Sonoluminescent Spectroscopic Analysis. Applied Spectroscopy, 2022, 76, 1375-1380.	2.2	4
2	New sonochemiluminescence involving solvated electron in Ce(III)/Ce(IV) solutions. Ultrasonics Sonochemistry, 2021, 70, 105313.	8.2	6
3	Porous SiO2 nanoparticles containing ruthenium or sulfur compounds: Sonochemical producing and sonoluminescence in aqueous suspensions. Ultrasonics Sonochemistry, 2020, 61, 104842.	8.2	10
4	Confirmation of hydrated electrons formation during the moving single-bubble sonolysis: Activation of Tb3+ ion sonoluminescence by eaq- acceptors in an aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 402, 112800.	3.9	9
5	Electron-Stimulated Luminescence of $${mathbf{Ru(bpy)}}_{{mathbf{3}}}^{{{mathbf{2 + }}}}$$ in the Sonolysis of Solutions of $${mathbf{Ru(bpy)}}_{{mathbf{3}}}^{{{mathbf{2 + }}}}$$ and $${mathbf{Ru(bpy)}}_{{mathbf{3}}}^{{{mathbf{3 + }}}}$$. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 569-571.	0.6	1
6	Mechanism of multibubble sonochemiluminescence of Ru(bpy)32+ in neutral aqueous solutions. Ultrasonics Sonochemistry, 2019, 51, 395-398.	8.2	5
7	Sonochemiluminescence of Ru(bpy)33+ in aqueous solutions. Evidence of the formation of hydrated electrons during the single-bubble sonolysis in a neutral aqueous medium. Ultrasonics Sonochemistry, 2019, 58, 104674.	8.2	11
8	Sonoluminescence in the solutions of organic aromatic phosphors. Journal of Luminescence, 2019, 215, 116684.	3.1	6
9	Activation of Ru(bpy)32+ multibubble sonochemiluminescence in alkaline aqueous solutions by a hydrated electron. Ultrasonics Sonochemistry, 2019, 53, 55-58.	8.2	3
10	Visualization of Luminescence of Two Types in an Acoustic Field in a Liquid. Technical Physics Letters, 2019, 45, 1175-1177.	0.7	4
11	Mechanism of the Ru(bpy)32+ single-bubble sonochemiluminescence in neutral and alkaline aqueous solutions. Journal of Luminescence, 2019, 208, 99-103.	3.1	9
12	Spectroscopic measurement of electronic temperature in the bubbles during single- and multibubble sonoluminescence of metal carbonyl solutions and nanodispersed suspensions. Ultrasonics Sonochemistry, 2019, 51, 178-181.	8.2	14
13	Sonochemiluminescence in an aqueous solution of Ru(bpy)3Cl2. Ultrasonics Sonochemistry, 2018, 42, 526-531.	8.2	19
14	Sonoluminescence of Suspensions of Insoluble Chromium Carbonyl Nanoparticles in Water and Inorganic Acids. Technical Physics Letters, 2018, 44, 1072-1073.	0.7	1
15	Sonoluminescence and sonochemiluminescence of peroxide solutions. Russian Chemical Bulletin, 2016, 65, 167-172.	1.5	2
16	Mechanoluminescence of terbium and cerium sulfates in a noble-gas atmosphere. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 691-694.	0.6	14
17	Luminescence of OD radical as an evidence for water decomposition under destruction of the deuterated terbium sulfate crystal hydrate. Journal of Luminescence, 2014, 148, 79-81.	3.1	13
18	Few-bubble luminescence in the acoustic field of a spherical resonator in aqueous solutions of sodium and terbium compounds. Acoustical Physics, 2013, 59, 521-527.	1.0	4

#	Article	IF	Citations
19	Multibubble sonoluminescence of Tb3+ ion in aqueous solutions of dimethyl sulfoxide. Russian Chemical Bulletin, 2012, 61, 528-531.	1.5	0
20	Detection of OH radical and O atom during triboluminescence of hydrated cerium/terbium sulfates. Journal of Luminescence, 2012, 132, 175-177.	3.1	19
21	Luminescence of sodium atoms in aqueous solution during sonolysis in moving-single-bubble regime. Technical Physics Letters, 2012, 38, 74-76.	0.7	4
22	Triboluminescence of crystals and suspensions of inorganic salts of lanthanides. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 13-19.	1.1	25
23	Multibubble sonolysis and sonoluminescence in molten elementary sulfur and sulfurâ€"styrene mixture. Russian Chemical Bulletin, 2010, 59, 917-921.	1.5	0
24	Sonochemiluminescence of aromatic hydrocarbons. Russian Chemical Bulletin, 2010, 59, 1680-1685.	1.5	11
25	Sonotriboluminescence in suspensions of trivalent terbium compounds. Technical Physics Letters, 2009, 35, 452-455.	0.7	15
26	Multibubble sonoluminescence of europium(III) chloride in heavy water. Russian Chemical Bulletin, 2008, 57, 1827-1830.	1.5	4
27	Effect of argon on the multibubble sonoluminescence of cerium, terbium, and dysprosium trichlorides. Russian Chemical Bulletin, 2008, 57, 1831-1836.	1.5	6
28	Sonoluminescence of terbium chloride in an H2O-D2O mixture. Russian Chemical Bulletin, 2006, 55, 1114-1118.	1.5	4
29	Sonoluminescence of aqueous solution of gadolinium chloride. Russian Chemical Bulletin, 2005, 54, 1383-1386.	1.5	1
30	On the emitters of sulfuric acid sonoluminescence. Russian Chemical Bulletin, 2005, 54, 1793-1797.	1.5	2
31	Sonoluminescence of aqueous solutions of sulfuric acid and sulfur dioxide. Russian Chemical Bulletin, 2003, 52, 1966-1968.	1.5	9
32	Sonoluminescence of aqueous solutions of lanthanide salts. Russian Chemical Bulletin, 2003, 52, 1969-1973.	1.5	23