Shumaila Islam

List of Publications by Year
in descending order

46 papers	508 citations	687363 13 h-index	752698 20 g-index
46 all docs	46 docs citations	46 times ranked	398 citing authors

#	Article	IF	Citations
1	Solâ€“gel based fiber optic pH nanosensor: Structural and sensing properties. Sensors and Actuators A: Physical, 2016, 238, 8-18.	4.1	35
2	Preparation and characterization of crack-free solâ€“gel based SiO2â€“TiO2 hybrid nanoparticle film. Journal of Sol-Gel Science and Technology, 2013, 68, 162-168.	2.4	34
3	Solâ€“gel based phenolphthalein encapsulated heterogeneous silicaâ€“titania optochemical pH nanosensor. Journal of Industrial and Engineering Chemistry, 2016, 34, 258-268.	5.8	33
4	Mesoporous SiO2â€“TiO2 nanocomposite for pH sensing. Sensors and Actuators B: Chemical, 2015, 221, 993-1002.	7.8	28
5	Synthesis and characterization of multilayered solâ€“gel based plastic-clad fiber optic pH sensor. Journal of Industrial and Engineering Chemistry, 2015, 23, 140-144.	5.8	25
6	Surface functionality and optical properties impact of phenol red dye on mesoporous silica matrix for fiber optic pH sensing. Sensors and Actuators A: Physical, 2018, 276, 267-277.	4.1	25
7	Synthesis and characterization of hybrid matrix with encapsulated organic sensing dyes for pH sensing application. Journal of Industrial and Engineering Chemistry, 2014, 20, 4408-4414.	5.8	22
8	Self-assembled hierarchical phenolphthalein encapsulated silica nanoparticles: Structural, optical and sensing response. Sensors and Actuators A: Physical, 2017, 266, 111-121.	4.1	19
9	Optically active-thermally stable multi-dyes encapsulated mesoporous silica aerogel: A potential pH sensing nanomatrix. Microporous and Mesoporous Materials, 2019, 274, 183-189.	4.4	18
10	Influence of organic pH dyes on the structural and optical characteristics of silica nanostructured matrix for fiber optic sensing. Sensors and Actuators A: Physical, 2018, 282, 28-38.	4.1	16
11	Crack-free high surface area silica-titania nanocomposite coating as opto-chemical sensor device. Sensors and Actuators A: Physical, 2018, 270, 153-161.	4.1	15
12	Synthesis and characterization of uncoated and cysteamine-coated gold nanoparticles by pulsed laser ablation. Journal of Nanophotonics, 2016, 10, 046007.	1.0	13
13	Solâ€“gel-based single and multilayer nanoparticle thin films on low-temperature substrate poly-methyl methacrylate for optical applications. Journal of Sol-Gel Science and Technology, 2016, 77, 396-403.	2.4	13
14	Synthesis of optically active bromophenol blue encapsulated mesoporous silicaâ€“titania nanomatrix: structural and sensing characteristics. Journal of Sol-Gel Science and Technology, 2018, 85, 231-242.	2.4	13
15	CR incorporation in mesoporous silica matrix for fiber optic pH sensing. Sensors and Actuators A: Physical, 2018, 280, 429-436.	4.1	13
16	Silica-titania nanocomposite based fiber optic sensor for aromatic hydrocarbons detection. Optics Communications, 2020, 471, 125825.	2.1	13
17	Influence of ZnO doping on structural, optical and pH-stimulus characteristics of silica-titania nanocomposite matrix. Journal of Saudi Chemical Society, 2018, 22, 826-837.	5.2	12
18	Fast responsive anatase nanoparticles coated fiber optic pH sensor. Journal of Alloys and Compounds, 2021, 850, 156246.	5.5	12

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19	Solâ€“gel based optically active phenolphthalein encapsulated nanomatrices for sensing application. Journal of Sol-Gel Science and Technology, 2016, 79, 616-627.	2.4	11
20	Mesoporous anatase based opto-chemical sensor. Materials Science in Semiconductor Processing, 2019, 100, 236-244.	4.0	10
21	Thermally stable Au decorated silica-titania mesoporous nanocomposite for pH sensing evaluation. Applied Surface Science, 2020, 521, 146329.	6.1	10
22	BPB dye confined growth of surfactant-assisted mesostructured silica matrix fiber optic sensing tracers. Journal of Saudi Chemical Society, 2019, 23, 427-438.	5.2	9
23	Fast responsive thermally stable silica microspheres for sensing evaluation: solâ€“gel approach. Journal of Sol-Gel Science and Technology, 2020, 96, 614-626.	2.4	8
24	Mesoporous zinc oxide supported silica-titania nanocomposite: Structural, optical, and photocatalytic activity. Journal of Alloys and Compounds, 2021, 881, 160582.	5.5	8
25	Solâ€“gel based thermally stable mesoporous TiO2 nanomatrix for fiber optic pH sensing. Journal of Sol-Gel Science and Technology, 2018, 86, 42-50.	2.4	7
26	Thermally and optically functionalized Anatase nano-cavities based fiber optic pH sensor. Materials Research Bulletin, 2021, 133, 111017.	5.2	7
27	Thermally stable mesoporous pH dyes encapsulated titania nanocomposites for opto-chemical sensing. Materials Research Bulletin, 2022, 146, 111605.	5.2	7
28	Synthesis and characterization of room temperature solâ€“gel-assisted transparent tin-doped magnesium oxide nanoparticlesâ€™ protective coating. Journal of Sol-Gel Science and Technology, 2017, 81, 623-631.	2.4	6
29	Effect of pH on phenolphthalein immobilized gold nanoparticles/nanostructures for pH sensing evaluations: solâ€“gel method. Journal of Sol-Gel Science and Technology, 2021, 100, 192-204.	2.4	6
30	Formation of Rutile Titania Phase at Low Temperature. Materials Today: Proceedings, 2015, 2, 5298-5301.	1.8	5
31	Structural and dielectric properties of boron-doped and un-doped mullite thin films. Journal of Sol-Gel Science and Technology, 2015, 74, 368-377.	2.4	5
32	Mesoporous nanocomposite coatings for photonic devices: solâ€“gel approach. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5
33	Low temperature sol-gel based erbium doped mullite nanoparticles: Structural and optical properties. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 366-373.	5.3	5
34	Thermally stable ZnO doped SiO2â€“TiO2 nanocomposite based Opto-chemical sensor. Materials Chemistry and Physics, 2021, 267, 124687.	4.0	5
35	Thermally stable and fast responsive mesoporous cresol red functionalized silica and titania nanomatrices: fiber optic pH sensors. Journal of Sol-Gel Science and Technology, 2021, 99, 497-511.	2.4	5
36	Multilayer crack-free hybrid coatings for functional devices. Journal of Nanophotonics, 2016, 10, 026026.	1.0	4

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37	Structural and antimicrobial response of chitosan capped gold nanostructures employing two different synthetic routes. Optical Materials, 2021, 112, 110741.	3.6	4
38	Synthesis and characterization of bromophenol blue encapsulated silica and silica-titania nanocomposites for detection of volatile organic vapors. Physica B: Condensed Matter, 2021, 614, 413026.	2.7	4
39	Optically functionalized hierarchical hematite assembled silica-titania nanocomposites for hydrocarbon detection: Fiber optic chemical sensor. Microporous and Mesoporous Materials, 2021, 326, 111398.	4.4	4
40	Impact of pH on structural and sensing characteristics of cresol red encapsulated polyethylene glycol assisted silica nanomatrix: Sol-gel method. Optical Materials, 2021, 121, 111546.	3.6	4
41	Raspberry like creosol red functionalized zincite supported silica-titania nanocomposite: Correlation of structural, optical, and pH sensing properties. Materials Research Bulletin, 2022, 155, 111967.	5.2	4
42	Mesoporous nanostructures-based fiber optic pH sensors: Synthesis, structure-tailoring, physiochemical and sensing stimuli. Materials Research Bulletin, 2021, 140, 111332.	5.2	3
43	Self-assembled phenolphthalein functionalized zincite doped silica-anatase nanocomposite as fast responsive optical pH sensor. Optical Materials, 2022, 127, 112285.	3.6	3
44	Study of Single and Multilayer Silica-titania Thin Films on Plastic Substrate. Materials Today: Proceedings, 2015, 2, 5205-5208.	1.8	0
45	Thermally and optically functionalized titania nanoparticles for pH sensing. Journal of Physics: Conference Series, 2020, 1484, 012012.	0.4	0
46	Hierarchically grown nanostructure for suppressing leaching in fiber optic chemical sensing. Materials Chemistry and Physics, 2022, 286, 126194.	4.0	0