Shumaila Islam

List of Publications by Year
in descending order

60 papers	709 citations	623734 14 h-index	642732 23 g-index
60 all docs	60 docs citations	60 times ranked	738 citing authors

#	Article	IF	Citations
1	Thermally stable mesoporous pH dyes encapsulated titania nanocomposites for opto-chemical sensing. Materials Research Bulletin, 2022, 146, 111605.	5.2	7
2	Multi-organic dyes-immobilised zincite decorated silica-titania nanocomposite: A study on atomic site structural changes for pH sensor activity progression. Materials Research Bulletin, 2022, 149, 111730.	5.2	2
3	Self-assembled phenolphthalein functionalized zincite doped silica-anatase nanocomposite as fast responsive optical pH sensor. Optical Materials, 2022, 127, 112285.	3.6	3
4	Hierarchically grown nanostructure for suppressing leaching in fiber optic chemical sensing. Materials Chemistry and Physics, 2022, 286, 126194.	4.0	0
5	A promising nonlinear optics and optical limiting attributes in single organic coumarin-based compounds. Current Applied Physics, 2022, 39, 147-153.	2.4	2
6	Thermally and optically functionalized Anatase nano-cavities based fiber optic pH sensor. Materials Research Bulletin, 2021, 133, 111017.	5.2	7
7	Fast responsive anatase nanoparticles coated fiber optic pH sensor. Journal of Alloys and Compounds, 2021, 850, 156246.	5.5	12
8	Structural and antimicrobial response of chitosan capped gold nanostructures employing two different synthetic routes. Optical Materials, 2021, 112, 110741.	3.6	4
9	Thermally stable ZnO doped SiO2â€“TiO2 nanocomposite based Opto-chemical sensor. Materials Chemistry and Physics, 2021, 267, 124687.	4.0	5
10	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
11	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
12	Mesoporous nanostructures-based fiber optic pH sensors: Synthesis, structure-tailoring, physiochemical and sensing stimuli. Materials Research Bulletin, 2021, 140, 111332.	5.2	3
13	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
14	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
15	Mesoporous zinc oxide supported silica-titania nanocomposite: Structural, optical, and photocatalytic activity. Journal of Alloys and Compounds, 2021, 881, 160582.	5.5	8
16	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
17	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
18	Silica-titania nanocomposite based fiber optic sensor for aromatic hydrocarbons detection. Optics Communications, 2020, 471, 125825.	2.1	13

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19	Thermally and optically functionalized titania nanoparticles for pH sensing. Journal of Physics: Conference Series, 2020, 1484, 012012.	0.4	0
20	Hydrophobic effect evolution dependent manipulation of ZnO nanostructures morphology. Journal of the Australian Ceramic Society, 2020, 56, 1377-1384.	1.9	5
21	Thermally stable Au decorated silica-titania mesoporous nanocomposite for pH sensing evaluation. Applied Surface Science, 2020, 521, 146329.	6.1	10
22	Antimicrobial activity of citric acid functionalized iron oxide nanoparticles â€“Superparamagnetic effect. Ceramics International, 2020, 46, 10942-10951.	4.8	36
23	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
24	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
25	Synthesis and Characterization of Gold-Silver Nanoparticles in Deionized Water by Pulsed Laser Ablation (PLAL) Technique at Different Laser Parameter. International Journal of Nanoscience, 2019, 18, .	0.7	10
26	Mesoporous anatase based opto-chemical sensor. Materials Science in Semiconductor Processing, 2019, 100, 236-244.	4.0	10
27	Optically active phenolphthalein encapsulated gold nanodendrites for fiber optic pH sensing. Applied Surface Science, 2019, 485, 323-331.	6.1	10
28	Grown of highly porous ZnO-nanoparticles by pulsed laser ablation in liquid technique for sensing applications. Journal of the Australian Ceramic Society, 2019, 55, 765-771.	1.9	5
29	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
30	Synthesis of truncated tetrahedral cinnamon nanoparticles in citric acid media via PLAL technique. Materials Letters, 2018, 217, 267-270.	2.6	14
31	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
32	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
33	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
34	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
35	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
36	CR incorporation in mesoporous silica matrix for fiber optic pH sensing. Sensors and Actuators A: Physical, 2018, 280, 429-436.	4.1	13

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37	Low power CO2 laser modified iron/nickel alloyed pure aluminum surface: Evaluation of structural and mechanical properties. Surface and Coatings Technology, 2017, 315, 24-31.	4.8	8
38	The effect of magnetic and optic field in water electrolysis. International Journal of Hydrogen Energy, 2017, 42, 16325-16332.	7.1	40
39	Self-assembled hierarchical phenolphthalein encapsulated silica nanoparticles: Structural, optical and sensing response. Sensors and Actuators A: Physical, 2017, 266, 111-121.	4.1	19
40	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
41	Influence of gold nanoparticles on wound healing treatment in rat model: Photobiomodulation therapy. Lasers in Surgery and Medicine, 2017, 49, 380-386.	2.1	65
42	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
43	Mesoporous nanocomposite coatings for photonic devices: solâ€“gel approach. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5
44	Structures and emission features of high-density ZnO micro/nanostructure grown by an easy hydrothermal method. Materials Chemistry and Physics, 2016, 182, 298-307.	4.0	13
45	Synthesis and characterization of uncoated and cysteamine-coated gold nanoparticles by pulsed laser ablation. Journal of Nanophotonics, 2016, 10, 046007.	1.0	13
46	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
47	Multilayer crack-free hybrid coatings for functional devices. Journal of Nanophotonics, 2016, 10, 026026.	1.0	4
48	Solâ€“gel based phenolphthalein encapsulated heterogeneous silicaâ€“titania optochemical pH nanosensor. Journal of Industrial and Engineering Chemistry, 2016, 34, 258-268.	5.8	33
49	Solâ€“gel based fiber optic pH nanosensor: Structural and sensing properties. Sensors and Actuators A: Physical, 2016, 238, 8-18.	4.1	35
50	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
51	Formation of Rutile Titania Phase at Low Temperature. Materials Today: Proceedings, 2015, 2, 5298-5301.	1.8	5
52	Study of Sol-gel Based Antireflection Coatings. Materials Today: Proceedings, 2015, 2, 5177-5181.	1.8	2
53	Effect of Boron Doping on the Kinetics of Mullite Thin Films Transformation. Materials Today: Proceedings, 2015, 2, 5441-5445.	1.8	0
54	Fiber Optic Displacement Sensor for Industrial Applications. IEEE Sensors Journal, 2015, 15, 4882-4887.	4.7	15

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55	Study of Single and Multilayer Silica-titania Thin Films on Plastic Substrate. Materials Today: Proceedings, 2015, 2, 5205-5208.	1.8	0
56	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
57	Mesoporous SiO2â€“TiO2 nanocomposite for pH sensing. Sensors and Actuators B: Chemical, 2015, 221, 993-1002.	7.8	28
58	Determination of Hydrocarbon Level in Distilled Water via Fiber Optic Displacement Sensor. IEEE Sensors Journal, 2015, 15, 6135-6140.	4.7	3
59	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
60	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