

Tushar Kumeria

List of Publications by Year in descending order

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109
papers

4,115
citations

81900

39
h-index

128289

60
g-index

110
all docs

110
docs citations

110
times ranked

4431
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Nanoparticles for Enhanced Oral Delivery of Coenzyme-Q10: <i>in Vitro</i> and <i>in Silico</i> Studies. ACS Biomaterials Science and Engineering, 2023, 9, 2846-2856.	5.2	9
2	Ultra-bright green carbon dots with excitation-independent fluorescence for bioimaging. Journal of Nanostructure in Chemistry, 2023, 13, 377-387.	9.1	13
3	Enteric Polymer-Coated Porous Silicon Nanoparticles for Site-Specific Oral Delivery of IgA Antibody. ACS Biomaterials Science and Engineering, 2022, 8, 4140-4152.	5.2	18
4	Real-time detection of per-fluoroalkyl substance (PFAS) self-assembled monolayers in nanoporous interferometers. Sensors and Actuators B: Chemical, 2022, 355, 131340.	7.8	5
5	3D printing: potential clinical applications for personalised solid dose medications. Medical Journal of Australia, 2022, 216, 64-67.	1.7	4
6	Understanding the relationship between solubility and permeability of β -cyclodextrin-based systems embedded with poorly aqueous soluble benznidazole. International Journal of Pharmaceutics, 2022, 616, 121487.	5.2	11
7	Influence of PEGylated porous silicon nanoparticles on permeation and efflux of an orally administered antibiotic. Materials Today Advances, 2022, 13, 100210.	5.2	7
8	Role of drug delivery technologies in the success of COVID-19 vaccines: a perspective. Drug Delivery and Translational Research, 2022, 12, 2581-2588.	5.8	17
9	Skin biomechanics: Breaking the dermal barriers with microneedles. , 2022, 1, 9130002.		10
10	Nanomaterials: The New Antimicrobial Magic Bullet. ACS Infectious Diseases, 2022, 8, 693-712.	3.8	28
11	Advances and future perspectives in epithelial drug delivery. Advanced Drug Delivery Reviews, 2022, 186, 114293.	13.7	43
12	Dissolvable polymer microneedles for drug delivery and diagnostics. Journal of Controlled Release, 2022, 347, 561-589.	9.9	41
13	One-Pot Synthesis of pH-Responsive Eudragit-Mesoporous Silica Nanocomposites Enable Colonic Delivery of Glucocorticoids for the Treatment of Inflammatory Bowel Disease. Advanced Therapeutics, 2021, 4, 2000165.	3.2	26
14	Oral meropenem for superbugs: challenges and opportunities. Drug Discovery Today, 2021, 26, 551-560.	6.4	22
15	Liquid CO ₂ Formulated Mesoporous Silica Nanoparticles for pH-Responsive Oral Delivery of Meropenem. ACS Biomaterials Science and Engineering, 2021, 7, 1836-1853.	5.2	22
16	Engineering mesoporous silica nanoparticles towards oral delivery of vancomycin. Journal of Materials Chemistry B, 2021, 9, 7145-7166.	5.8	23
17	Supercritical carbon dioxide assisted complexation of benznidazole: β -cyclodextrin for improved dissolution. International Journal of Pharmaceutics, 2021, 596, 120240.	5.2	13
18	PLGA encapsulated β -cyclodextrin-meropenem inclusion complex formulation for oral delivery. International Journal of Pharmaceutics, 2021, 597, 120280.	5.2	17

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19	Frontiers in the treatment of glioblastoma: Past, present and emerging. <i>Advanced Drug Delivery Reviews</i> , 2021, 171, 108-138.	13.7	125
20	Sustained release ketamine-loaded porous silicon-PLGA microparticles prepared by an optimized supercritical CO ₂ process. <i>Drug Delivery and Translational Research</i> , 2021, , 1.	5.8	3
21	Ternary Au@TiO ₂ /Fe ₂ O ₃ Nanocomposite with Nanoring Structure: Synthesis, Characterization and Photocatalytic Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4372-4379.	3.7	5
22	Microfluidic assembly of pomegranate-like hierarchical microspheres for efflux regulation in oral drug delivery. <i>Acta Biomaterialia</i> , 2021, 126, 277-290.	8.3	23
23	Nanocarriers for oral delivery of biologics: small carriers for big payloads. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 957-972.	8.7	35
24	Mesopores silica nanotubes-based sensors for the highly selective and rapid detection of Fe ²⁺ ions in wastewater, boiler system units and biological samples. <i>Analytica Chimica Acta</i> , 2021, 1180, 338860.	5.4	12
25	Oral Delivery of β -Lactoglobulin-Nanosphere-Encapsulated Resveratrol Alleviates Inflammation in Winnie Mice with Spontaneous Ulcerative Colitis. <i>Molecular Pharmaceutics</i> , 2021, 18, 627-640.	4.6	39
26	Spectral and Structural Characterization of Metformin with Different Counter Anions: Comparative Analysis and DFT Calculations. <i>Asian Journal of Chemistry</i> , 2021, 33, 2817-2825.	0.3	0
27	Ceria decorated porous diatom-xerogel as an effective adsorbent for the efficient removal of Eriochrome Black T. <i>Chemosphere</i> , 2020, 238, 124692.	8.2	56
28	Moldless Printing of Silicone Lenses with Embedded Nanostructured Optical Filters. <i>Advanced Functional Materials</i> , 2020, 30, 1906836.	14.9	19
29	Silica nanoparticles: A promising platform for enhanced oral delivery of macromolecules. <i>Journal of Controlled Release</i> , 2020, 326, 544-555.	9.9	75
30	Editorial: Engineered Nanoporous Materials for Chemical Sensors and Biosensors. <i>Frontiers in Chemistry</i> , 2020, 8, 595931.	3.6	0
31	Size, shape and surface charge considerations of orally delivered nanomedicines. , 2020, , 143-176.		4
32	Naturally available diatomite and their surface modification for the removal of hazardous dye and metal ions: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102198.	14.7	89
33	Polymer-“Mesoporous Silica Nanoparticle Core”-Shell Nanofibers as a Dual-Drug-Delivery System for Guided Tissue Regeneration. <i>ACS Applied Nano Materials</i> , 2020, 3, 1457-1467.	5.0	49
34	Crystalline ZnO and ZnO / TiO ₂ nanoparticles derived from tert-butyl mercaptoethyl carbamatozinc(II) chelate: Electrocatalytic studies for H ₂ generation in alkaline electrolytes. <i>International Journal of Energy Research</i> , 2020, 44, 6725-6744.	4.5	11
35	Rationally Designed Dendritic Silica Nanoparticles for Oral Delivery of Exenatide. <i>Pharmaceutics</i> , 2019, 11, 418.	4.5	42
36	Encapsulation and Controlled Release of Resveratrol Within Functionalized Mesoporous Silica Nanoparticles for Prostate Cancer Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 225.	4.1	98

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37	Succinylated β -Lactoglobuline-Functionalized Multiwalled Carbon Nanotubes with Improved Colloidal Stability and Biocompatibility. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3361-3372.	5.2	17
38	Enhanced hydrogen evolution reaction on highly stable titania-supported PdO and Eu_2O_3 nanocomposites in a strong alkaline solution. <i>International Journal of Energy Research</i> , 2019, 43, 5367-5383.	4.5	22
39	Amine activated diatom xerogel hybrid material for efficient removal of hazardous dye. <i>Materials Chemistry and Physics</i> , 2019, 235, 121738.	4.0	42
40	Environmental Copper Sensor Based on Polyethylenimine-Functionalized Nanoporous Anodic Alumina Interferometers. <i>Analytical Chemistry</i> , 2019, 91, 5011-5020.	6.5	51
41	Direct Z-scheme of $\text{Cu}_2\text{O}/\text{TiO}_2$ enhanced self-cleaning, antibacterial activity, and UV protection of cotton fiber under sunlight. <i>Applied Surface Science</i> , 2019, 479, 953-962.	6.1	90
42	Efficient photoacoustic imaging using indocyanine green (ICG) loaded functionalized mesoporous silica nanoparticles. <i>Biomaterials Science</i> , 2019, 7, 5002-5015.	5.4	56
43	Nanoporous photonic crystals with tailored surface chemistry for ionic copper sensing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12278-12289.	5.5	14
44	An improved strategy for transferring and adhering thin nanoporous alumina membranes onto conducting transparent electrodes for template assisted electrodeposition of high aspect ratio semiconductor nanowires with increased optical absorption. <i>Nanotechnology</i> , 2019, 30, 095301.	2.6	4
45	Luminescent Porous Silicon Nanoparticles for Continuous Wave and Time-Gated Photoluminescence Imaging. <i>Methods in Molecular Biology</i> , 2019, 2054, 185-198.	0.9	0
46	Oriented Nanofibrous Polymer Scaffolds Containing Protein-Loaded Porous Silicon Generated by Spray Nebulization. <i>Advanced Materials</i> , 2018, 30, e1706785.	21.0	38
47	Visual Sensor for Sterilization of Polymer Fixtures Using Embedded Mesoporous Silicon Photonic Crystals. <i>ACS Sensors</i> , 2018, 3, 143-150.	7.8	14
48	Self-Reporting Photoluminescent Porous Silicon Microparticles for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3200-3209.	8.0	42
49	Enhanced Solubility, Permeability and Anticancer Activity of Vorinostat Using Tailored Mesoporous Silica Nanoparticles. <i>Pharmaceutics</i> , 2018, 10, 283.	4.5	44
50	Rapid Processing of Wafer-Scale Anti-Reflecting 3D Hierarchical Structures on Silicon and Its Templation. <i>Materials</i> , 2018, 11, 2586.	2.9	4
51	Cathodically activated Au/TiO_2 nanocomposite synthesized by a new facile solvothermal method: An efficient electrocatalyst with Pt-like activity for hydrogen generation. <i>Electrochimica Acta</i> , 2018, 290, 404-418.	5.2	45
52	Fluorescence Analysis: From Sensing to Imaging. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 1-2.	1.6	2
53	Diatom Silica for Biomedical Applications: Recent Progress and Advances. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800552.	7.6	77
54	Porous Silicon Particles for Cancer Therapy and Bioimaging. <i>Nanomedicine and Nanotoxicology</i> , 2018, , 305-340.	0.2	3

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55	Porous silicon for drug delivery applications and theranostics: recent advances, critical review and perspectives. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 1407-1422.	5.0	86
56	Multifunctional microspherical magnetic and pH responsive carriers for combination anticancer therapy engineered by droplet-based microfluidics. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4097-4109.	5.8	36
57	Paper-based microfluidic analytical devices for colorimetric detection of toxic ions: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 93, 212-227.	11.4	155
58	Chemical Functionalization of Inner Walls of Carbon Nanotubes with Long-Chain Aliphatic Amines. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 712-718.	0.4	4
59	Modulating molecular transport across peptide-modified nanoporous alumina membranes with light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
60	From The Mine to Cancer Therapy: Natural and Biodegradable Theranostic Silicon Nanocarriers from Diatoms for Sustained Delivery of Chemotherapeutics. <i>Advanced Healthcare Materials</i> , 2016, 5, 2667-2678.	7.6	37
61	Iron Oxide Nanowires from Bacteria Biofilm as an Efficient Visible-Light Magnetic Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20110-20119.	8.0	31
62	Naturally Derived Iron Oxide Nanowires from Bacteria for Magnetically Triggered Drug Release and Cancer Hyperthermia in 2D and 3D Culture Environments: Bacteria Biofilm to Potent Cancer Therapeutic. <i>Biomacromolecules</i> , 2016, 17, 2726-2736.	5.4	38
63	Morphology-controlled MnO ₂ “graphene oxide” diatomaceous earth 3-dimensional (3D) composites for high-performance supercapacitors. <i>Dalton Transactions</i> , 2016, 45, 936-942.	3.3	45
64	Realisation and advanced engineering of true optical rugate filters based on nanoporous anodic alumina by sinusoidal pulse anodisation. <i>Nanoscale</i> , 2016, 8, 1360-1373.	5.6	56
65	Microcarriers: Luminescent Silicon Diatom Replicas: Self-Reporting and Degradable Drug Carriers with Biologically Derived Shape for Sustained Delivery of Therapeutics (<i>Adv. Funct. Mater.</i> 32/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5240-5240.	14.9	3
66	Rational Design of Photonic Dust from Nanoporous Anodic Alumina Films: A Versatile Photonic Nanotool for Visual Sensing. <i>Scientific Reports</i> , 2015, 5, 12893.	3.3	31
67	Luminescent Silicon Diatom Replicas: Self-Reporting and Degradable Drug Carriers with Biologically Derived Shape for Sustained Delivery of Therapeutics. <i>Advanced Functional Materials</i> , 2015, 25, 5107-5116.	14.9	35
68	Engineered Therapeutic-Releasing Nanoporous Anodic Alumina-Aluminum Wires with Extended Release of Therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3846-3853.	8.0	17
69	Carbon nanotube-nanoporous anodic alumina composite membranes with controllable inner diameters and surface chemistry: Influence on molecular transport and chemical selectivity. <i>Carbon</i> , 2015, 93, 681-692.	10.3	31
70	On The Generation of Interferometric Colors in High Purity and Technical Grade Aluminum: An Alternative Green Process for Metal Finishing Industry. <i>Electrochimica Acta</i> , 2015, 174, 672-681.	5.2	41
71	Facile Synthesis of Optical Microcavities by a Rationally Designed Anodization Approach: Tailoring Photonic Signals by Nanopore Structure. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9879-9888.	8.0	41
72	Advanced biopolymer-coated drug-releasing titania nanotubes (TNTs) implants with simultaneously enhanced osteoblast adhesion and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 130, 255-263.	5.0	113

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73	Membranes: Photoswitchable Membranes Based on Peptide-Modified Nanoporous Anodic Alumina: Toward Smart Membranes for On-Demand Molecular Transport (Adv. Mater. 19/2015). Advanced Materials, 2015, 27, 2950-2950.	21.0	0
74	Interferometric nanoporous anodic alumina photonic coatings for optical sensing. Nanoscale, 2015, 7, 7770-7779.	5.6	49
75	Photoswitchable Membranes Based on Peptide-Modified Nanoporous Anodic Alumina: Toward Smart Membranes for On-Demand Molecular Transport. Advanced Materials, 2015, 27, 3019-3024.	21.0	38
76	Label-Free Real-Time Quantification of Enzyme Levels by Interferometric Spectroscopy Combined with Gelatin-Modified Nanoporous Anodic Alumina Photonic Films. Analytical Chemistry, 2015, 87, 9016-9024.	6.5	23
77	Localized drug delivery of selenium (Se) using nanoporous anodic aluminium oxide for bone implants. Journal of Materials Chemistry B, 2015, 3, 7090-7098.	5.8	22
78	Electrochemical Etching Methods for Producing Porous Silicon. Springer Series in Materials Science, 2015, , 1-36.	0.6	11
79	Isolation of circulating tumour cells by physical means in a microfluidic device: a review. RSC Advances, 2015, 5, 89745-89762.	3.6	38
80	Nanoporous Anodic Alumina for Optical Biosensing. Springer Series in Materials Science, 2015, , 219-247.	0.6	5
81	Biomimetic Nanoporous Anodic Alumina Distributed Bragg Reflectors in the Form of Films and Microsized Particles for Sensing Applications. ACS Applied Materials & Interfaces, 2015, 7, 19816-19824.	8.0	58
82	Nanoporous Alumina Membranes for Chromatography and Molecular Transporting. Springer Series in Materials Science, 2015, , 293-318.	0.6	3
83	Sensing and Biosensing Applications of Nanoporous Anodic Alumina. Springer Series in Materials Science, 2015, , 187-218.	0.6	1
84	Nanoporous Anodic Alumina Platforms: Engineered Surface Chemistry and Structure for Optical Sensing Applications. Sensors, 2014, 14, 11878-11918.	3.8	132
85	Nanoporous Anodic Alumina: A Versatile Platform for Optical Biosensors. Materials, 2014, 7, 4297-4320.	2.9	103
86	Frit-free PDMS microfluidic device for chromatographic separation and on-chip detection. RSC Advances, 2014, 4, 15276-15280.	3.6	25
87	Advanced Structural Engineering of Nanoporous Photonic Structures: Tailoring Nanopore Architecture to Enhance Sensing Properties. ACS Photonics, 2014, 1, 1298-1306.	6.6	59
88	Drug-releasing implants: current progress, challenges and perspectives. Journal of Materials Chemistry B, 2014, 2, 6157-6182.	5.8	112
89	Structural and Optical Nanoengineering of Nanoporous Anodic Alumina Rugate Filters for Real-Time and Label-Free Biosensing Applications. Analytical Chemistry, 2014, 86, 1837-1844.	6.5	89
90	Nanoporous Anodic Alumina Rugate Filters for Sensing of Ionic Mercury: Toward Environmental Point-of-Analysis Systems. ACS Applied Materials & Interfaces, 2014, 6, 12971-12978.	8.0	72

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91	<i>In situ</i> monitored engineering of inverted nanoporous anodic alumina funnels: on the precise generation of 3D optical nanostructures. <i>Nanoscale</i> , 2014, 6, 9991-9999.	5.6	43
92	Optically Optimized Photoluminescent and Interferometric Biosensors Based on Nanoporous Anodic Alumina: A Comparison. <i>Analytical Chemistry</i> , 2013, 85, 7904-7911.	6.5	65
93	Synthesis of well-organised carbon nanotube membranes from non-degradable plastic bags with tuneable molecular transport: Towards nanotechnological recycling. <i>Carbon</i> , 2013, 63, 423-433.	10.3	30
94	Ultrasensitive Nanoporous Interferometric Sensor for Label-Free Detection of Gold(III) Ions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11783-11790.	8.0	68
95	Graphene oxide decorated diatom silica particles as new nano-hybrids: towards smart natural drug microcarriers. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6302.	5.8	92
96	Real-time and in Situ Drug Release Monitoring from Nanoporous Implants under Dynamic Flow Conditions by Reflectometric Interference Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5436-5442.	8.0	37
97	Nanoporous anodic aluminum oxide for chemical sensing and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 44, 25-38.	11.4	208
98	Label-free reflectometric interference microchip biosensor based on nanoporous alumina for detection of circulating tumour cells. <i>Biosensors and Bioelectronics</i> , 2012, 35, 167-173.	10.1	112
99	Controlling interferometric properties of nanoporous anodic aluminium oxide. <i>Nanoscale Research Letters</i> , 2012, 7, 88.	5.7	67
100	Self-ordering Electrochemistry: A Simple Approach for Engineering Nanopore and Nanotube Arrays for Emerging Applications. <i>Australian Journal of Chemistry</i> , 2011, 64, 294.	0.9	48
101	Reflectometric interference biosensing using nanopores: integration into microfluidics. , 2011, , .		1
102	Reflective interferometric gas sensing using nanoporous anodic aluminium oxide (AAO). <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 406-408.	2.4	22
103	Back Cover: Reflective interferometric gas sensing using nanoporous anodic aluminium oxide (AAO) (Phys. Status Solidi RRL 10(11/2011)). <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, .	2.4	0
104	A nanoporous interferometric micro-sensor for biomedical detection of volatile sulphur compounds. <i>Nanoscale Research Letters</i> , 2011, 6, 634.	5.7	35
105	Bioinspired Microchip Nanoporous Interferometric Sensor for Sensing and Biosensing Applications. <i>Micro and Nanosystems</i> , 2011, 3, 290-295.	0.6	3
106	Optimisation of reflective interferometric properties of nanoporous anodic aluminium oxide (AAO) for biosensing applications. , 2010, , .		0
107	Modified titania nanotubes for decontamination of sulphur mustard. <i>Journal of Hazardous Materials</i> , 2009, 167, 1192-1197.	12.4	54
108	Sprayable Sense: Sprayable Nanofibers for On-site Chemical Sensing. <i>Advanced Functional Materials</i> , 0, , 2103496.	14.9	4

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109	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	6