

Waqar Ahmed

List of Publications by Year in descending order

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81
papers

2,251
citations

304602

22
h-index

223716

46
g-index

84
all docs

84
docs citations

84
times ranked

2487
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of 3D Printed Dosage Forms: Opportunities and Challenges. <i>Pharmaceutical Research</i> , 2016, 33, 1817-1832.	1.7	415
2	Channelled tablets: An innovative approach to accelerating drug release from 3D printed tablets. <i>Journal of Controlled Release</i> , 2018, 269, 355-363.	4.8	267
3	Adaptation of pharmaceutical excipients to FDM 3D printing for the fabrication of patient-tailored immediate release tablets. <i>International Journal of Pharmaceutics</i> , 2016, 513, 659-668.	2.6	248
4	Tablet fragmentation without a disintegrant: A novel design approach for accelerating disintegration and drug release from 3D printed cellulosic tablets. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 118, 191-199.	1.9	149
5	Comparison between FTIR and XPS characterization of amino acid glycine adsorption onto diamond-like carbon (DLC) and silicon doped DLC. <i>Applied Surface Science</i> , 2013, 273, 507-514.	3.1	122
6	Performance and characterisation of CVD diamond coated, sintered diamond and WC-Co cutting tools for dental and micromachining applications. <i>Thin Solid Films</i> , 2004, 447-448, 455-461.	0.8	67
7	Air-jet and vibrating-mesh nebulization of niosomes generated using a particulate-based proniosome technology. <i>International Journal of Pharmaceutics</i> , 2013, 444, 193-199.	2.6	60
8	Application of diamond coatings onto small dental tools. <i>Diamond and Related Materials</i> , 2002, 11, 731-735.	1.8	54
9	Synthesis of MgO Nanopowder via Non Aqueous Sol-Gel Method. <i>Advanced Science Letters</i> , 2012, 7, 27-29.	0.2	48
10	Novel paclitaxel formulations solubilized by parenteral nutrition nanoemulsions for application against glioma cell lines. <i>International Journal of Pharmaceutics</i> , 2016, 506, 102-109.	2.6	44
11	Proliposome powders prepared using a slurry method for the generation of beclometasone dipropionate liposomes. <i>International Journal of Pharmaceutics</i> , 2015, 496, 342-350.	2.6	43
12	Nebulization of ultradeformable liposomes: The influence of aerosolization mechanism and formulation excipients. <i>International Journal of Pharmaceutics</i> , 2012, 436, 519-526.	2.6	40
13	The effects of suspension particle size on the performance of air-jet, ultrasonic and vibrating-mesh nebulisers. <i>International Journal of Pharmaceutics</i> , 2014, 461, 234-241.	2.6	39
14	Biocompatible superparamagnetic core-shell nanoparticles for potential use in hyperthermia-enabled drug release and as an enhanced contrast agent. <i>Nanotechnology</i> , 2020, 31, 375102.	1.3	39
15	Vibrating-mesh nebulization of liposomes generated using an ethanol-based proliposome technology. <i>Journal of Liposome Research</i> , 2011, 21, 173-180.	1.5	38
16	A study of the effects of sodium halides on the performance of air-jet and vibrating-mesh nebulizers. <i>International Journal of Pharmaceutics</i> , 2013, 456, 520-527.	2.6	36
17	Novel Multifunctional Carbon Nanotube Containing Silver and Iron Oxide Nanoparticles for Antimicrobial Applications in Water Treatment. <i>Materials Today: Proceedings</i> , 2017, 4, 57-64.	0.9	31
18	Blood flow through sutured and coupled microvascular anastomoses: A comparative computational study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2014, 67, 951-959.	0.5	30

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19	Spray-dried alginate microparticles for potential intranasal delivery of ropinirole hydrochloride: development, characterization and histopathological evaluation. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 290-299.	1.1	27
20	Characteristic of silicon doped diamond like carbon thin films on surface properties and human serum albumin adsorption. <i>Diamond and Related Materials</i> , 2015, 55, 108-116.	1.8	25
21	Thymopentin Nanoparticles Engineered with High Loading Efficiency, Improved Pharmacokinetic Properties, and Enhanced Immunostimulating Effect Using Soybean Phospholipid and PHBHHx Polymer. <i>Molecular Pharmaceutics</i> , 2014, 11, 3371-3377.	2.3	24
22	Stability of parenteral nanoemulsions loaded with paclitaxel: the influence of lipid phase composition, drug concentration and storage temperature. <i>Pharmaceutical Development and Technology</i> , 2014, 19, 999-1004.	1.1	24
23	Liposome-based carrier systems and devices used for pulmonary drug delivery. , 2013, , 395-443.		23
24	LPCVD of in-situ doped polycrystalline silicon at high growth rates. <i>Journal of Crystal Growth</i> , 1986, 79, 394-398.	0.7	22
25	A Study of Size, Microscopic Morphology, and Dispersion Mechanism of Structures Generated on Hydration of Proliposomes. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1121-1126.	1.3	20
26	Ethanol-based proliposome delivery systems of paclitaxel for in vitro application against brain cancer cells. <i>Journal of Liposome Research</i> , 2018, 28, 74-85.	1.5	20
27	A simple approach to predict the stability of phospholipid vesicles to nebulization without performing aerosolization studies. <i>International Journal of Pharmaceutics</i> , 2016, 502, 18-27.	2.6	19
28	Proliposome tablets manufactured using a slurry-driven lipid-enriched powders: Development, characterization and stability evaluation. <i>International Journal of Pharmaceutics</i> , 2018, 538, 250-262.	2.6	19
29	Proliposome Powders for the Generation of Liposomes: the Influence of Carbohydrate Carrier and Separation Conditions on Crystallinity and Entrapment of a Model Antiasthma Steroid. <i>AAPS PharmSciTech</i> , 2018, 19, 262-274.	1.5	17
30	Chemical vapour deposition of diamond films onto tungsten carbide dental burs. <i>Tribology International</i> , 2004, 37, 957-964.	3.0	16
31	Liposome mediated-CYP1A1 gene silencing nanomedicine prepared using lipid film-coated proliposomes as a potential treatment strategy of lung cancer. <i>International Journal of Pharmaceutics</i> , 2019, 566, 185-193.	2.6	16
32	Proliposome powder or tablets for generating inhalable liposomes using a medical nebulizer. <i>Journal of Pharmaceutical Investigation</i> , 2021, 51, 61-73.	2.7	16
33	A facile approach to manufacturing non-ionic surfactant nanodispersions using proniosome technology and high-pressure homogenization. <i>Journal of Liposome Research</i> , 2015, 25, 32-37.	1.5	13
34	Some recent trends in the preparation of thin layers by low pressure chemical vapour deposition. <i>Vacuum</i> , 1984, 34, 979-986.	1.6	12
35	Spray-Dried Proliposome Microparticles for High-Performance Aerosol Delivery Using a Monodose Powder Inhaler. <i>AAPS PharmSciTech</i> , 2018, 19, 2434-2448.	1.5	12
36	A review of exposure and toxicological aspects of carbon nanotubes, and as additives to fire retardants in polymers. <i>Critical Reviews in Toxicology</i> , 2016, 46, 74-95.	1.9	11

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37	Carbon nanotubes drug delivery system for cancer treatment. , 2020, , 313-332.		11
38	Laser Diffraction and Electron Microscopy Studies on Inhalable Liposomes Generated from Particulate-Based Proliposomes Within a Medical Nebulizer. Journal of Nanoscience and Nanotechnology, 2012, 12, 6693-6699.	0.9	9
39	Tunable Self-Assembled Peptide Structure: A Novel Approach to Design Dual-Use Biological Agents. Materials Today: Proceedings, 2017, 4, 32-40.	0.9	8
40	Dynamic response of a tetrahedral nanomachining machine tool structure. International Journal of Nanomanufacturing, 2006, 1, 26.	0.3	7
41	Synthesis and Characterization of MnO ₂ and CdO Nanoparticles. Advanced Science Letters, 2012, 7, 39-42.	0.2	7
42	Chemical Vapor Deposition of Diamond Coatings onto Dental Burrs. Journal of Chemical Education, 2003, 80, 636.	1.1	6
43	Design Characteristics of Inhaler Devices Used for Pulmonary Delivery of Medical Aerosols. , 2016, , 573-591.		6
44	VFCVD diamond-coated cutting tools for micro-machining titanium alloy Ti6Al4V. International Journal of Advanced Manufacturing Technology, 2017, 92, 2881-2918.	1.5	6
45	Collective Behavior of Self-propelled Particles in the presence of moving obstacles. Materials Today: Proceedings, 2017, 4, 65-74.	0.9	6
46	An investigation of LPCVD and PECVD of in situ doped polycrystalline silicon for VLSI. Advanced Materials for Optics and Electronics, 1992, 1, 255-259.	0.5	5
47	Monitoring Dental-Unit-Water-Line Output Water by Current In-office Test Kits. Current Microbiology, 2014, 69, 135-142.	1.0	5
48	Some approaches to large-scale manufacturing of liposomes. , 2015, , 402-417.		5
49	3D Printing of Pharmaceuticals. , 2018, , 467-498.		5
50	Ion implantation and in situ doping of silicon. Materials Chemistry and Physics, 1994, 37, 289-294.	2.0	4
51	Comparative Investigation of Smooth Polycrystalline Diamond Films on Dental Burs by Chemical Vapor Deposition. Journal of Materials Engineering and Performance, 2006, 15, 195-200.	1.2	4
52	Impact of surface roughness of diamond coatings on the cutting performance when dry machining of graphite. International Journal of Manufacturing Technology and Management, 2008, 15, 121.	0.1	3
53	Chemical Vapour Deposition of Diamond for Dental Tools and Burs. SpringerBriefs in Materials, 2014, , .	0.1	3
54	Mass spectral analysis of CVD processes. Surface and Coatings Technology, 1993, 57, 91-96.	2.2	2

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55	Dental drilling in severe and demanding environments. International Journal of Nano and Biomaterials, 2007, 1, 165.	0.1	2
56	Surface Engineering of $\text{CuIn}_{0.75}\text{Ga}_{0.25}\text{Se}_2$ Thin Films. Journal of Nano Research, 2008, 2, 69-76.	0.8	2
57	Surface engineering of dental tools with diamond for enhanced life and performance. , 2018, , 251-288.		2
58	Thermal Synthesis of Tetragonal Zirconia Nanopowders. Advanced Science Letters, 2012, 7, 35-38.	0.2	2
59	Oxidation of silicon using trichloroethane- O_2 and HCl-O_2 mixtures. Thin Solid Films, 1993, 223, 129-134.	0.8	1
60	Comparative dynamic response of mesomachine tool structures. International Journal of Computational Materials Science and Surface Engineering, 2009, 2, 18.	0.2	1
61	Diamond coated microtools for machining compact bone. International Journal of Nano and Biomaterials, 2009, 2, 505.	0.1	1
62	Performance of gait recognition in children's walking compared to adults. , 2011, , .		1
63	Nanotechnology For Tooth Regeneration. Faculty Dental Journal, 2014, 5, 32-37.	0.0	1
64	Accelerating Cell Dynamics Simulations of Soft Materials using CUDA-GPU. Materials Today: Proceedings, 2017, 4, 75-86.	0.9	1
65	Implementation of Crank-Nicolson scheme in cell dynamics simulation for diblock copolymers. Materials Today: Proceedings, 2017, 4, 41-49.	0.9	1
66	Advances in multi-functional superparamagnetic iron oxide nanoparticles in magnetic fluid hyperthermia for medical applications. , 2020, , 333-345.		1
67	CVD Diamond Technology for Microtools, NEMS, and MEMS Applications. , 2005, , 187-220.		1
68	Dental Tools, Human Tooth and Environment. SpringerBriefs in Materials, 2014, , 19-49.	0.1	1
69	Performance and characterisation of CVD diamond coated, sintered diamond and WC-Co cutting tools for dental and micromachining applications. Thin Solid Films, 2003, 447-448, 455-455.	0.8	0
70	Diamond film deposition on M2 steel using TiN interlayers. International Journal of Nano and Biomaterials, 2008, 1, 351.	0.1	0
71	A multifunctional high-speed spindle for micromachining medical materials. International Journal of Nano and Biomaterials, 2009, 2, 520.	0.1	0
72	Gait recognition in children under special circumstances. , 2011, , .		0

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73	Low Resistance Polycrystalline Diamond Thin Films Deposited by Hot Filament Chemical Vapour Deposition. Bulletin of Materials Science, 2014, 37, 579-583.	0.8	0
74	Dental implantsâ€™the preparation of enamel, dentin, and bone by machining. , 2020, , 369-391.		0
75	Taxane anticancer formulations: challenges and achievements. , 2020, , 347-358.		0
76	Nanocrystalline Diamond. , 2005, , 339-358.		0
77	Diamond Synthesis, Properties and Applications. SpringerBriefs in Materials, 2014, , 1-18.	0.1	0
78	Diamond Deposition on Tungsten Carbide Burs Using VFCVD. SpringerBriefs in Materials, 2014, , 97-107.	0.1	0
79	Controlling Structure and Morphology. SpringerBriefs in Materials, 2014, , 109-121.	0.1	0
80	VFCVD Diamond Dental Burs for Improved Performance. SpringerBriefs in Materials, 2014, , 123-140.	0.1	0
81	Diamond Deposition onto Wires and Microdrills Using VFCVD. SpringerBriefs in Materials, 2014, , 83-95.	0.1	0