

# Amr ElShaer

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,354  
citations

186265

28  
h-index

223800

46  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fructose malabsorption: causes, diagnosis and treatment. British Journal of Nutrition, 2022, 127, 481-489.	2.3	10
2	Porosity, cracks, and mechanical properties of additively manufactured tooling alloys: a review. Advances in Manufacturing, 2022, 10, 175-204.	6.1	24
3	Parts Design and Process Optimization. Advances in Computational Intelligence and Robotics Book Series, 2022, , 25-49.	0.4	0
4	Quercetin loaded cosm-nutraceutical electrospun composite nanofibers for acne alleviation: Preparation, characterization and experimental clinical appraisal. International Journal of Pharmaceutics, 2022, 612, 121309.	5.2	21
5	Effect of Runner Thickness and Hydrogen Content on the Mechanical Properties of A356 Alloy Castings. International Journal of Metalcasting, 2022, 16, 2175-2186.	1.9	5
6	Influence of Bifilm Defects Generated during Mould Filling on the Tensile Properties of Al-Si-Mg Cast Alloys. Metals, 2022, 12, 160.	2.3	2
7	Development of drug alone and carrier-based GLP-1 dry powder inhaler formulations. International Journal of Pharmaceutics, 2022, 617, 121601.	5.2	2
8	Therapeutic applications of capsaicin in humans to target conditions of the respiratory system: A scoping review. Respiratory Medicine, 2022, 194, 106772.	2.9	6
9	Fabrication and Optimisation of Ti-6Al-4V Lattice-Structured Total Shoulder Implants Using Laser Additive Manufacturing. Materials, 2022, 15, 3095.	2.9	18
10	RAFT dispersion polymerization induced self-assembly (PISA) of boronic acid-substituted acrylamides. Polymer Chemistry, 2022, 13, 3750-3755.	3.9	5
11	Powder-based laser hybrid additive manufacturing of metals: a review. International Journal of Advanced Manufacturing Technology, 2021, 114, 63-96.	3.0	70
12	3DP Printing of Oral Solid Formulations: A Systematic Review. Pharmaceutics, 2021, 13, 358.	4.5	37
13	Laser Powder Bed Fusion of Ti-6Al-2Sn-4Zr-6Mo Alloy and Properties Prediction Using Deep Learning Approaches. Materials, 2021, 14, 2056.	2.9	12
14	The Impact of Natural and Synthetic Polymers in Formulating Micro and Nanoparticles for Anti-Diabetic Drugs. Current Drug Delivery, 2021, 18, 271-288.	1.6	10
15	Microadditive Manufacturing Technologies of 3D Microelectromechanical Systems. Advanced Engineering Materials, 2021, 23, 2100422.	3.5	10
16	Efficacy and safety of glucose sensors for delivery of insulin: A Systematic Review. PharmaNutrition, 2021, 18, 100280.	1.7	5
17	Micro-fabrication of ceramics: Additive manufacturing and conventional technologies. Journal of Advanced Ceramics, 2021, 10, 1-27.	17.4	44
18	4D Printing of Origami Structures for Minimally Invasive Surgeries Using Functional Scaffold. Applied Sciences (Switzerland), 2021, 11, 332.	2.5	55

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19	Multistage Tool Path Optimisation of Single-Point Incremental Forming Process. <i>Materials</i> , 2021, 14, 6794.	2.9	13
20	3D Printing of Solid Oral Dosage Forms: Numerous Challenges With Unique Opportunities. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3535-3550.	3.3	51
21	4D Printing of NiTi Auxetic Structure with Improved Ballistic Performance. <i>Micromachines</i> , 2020, 11, 745.	2.9	33
22	Design optimization of additively manufactured titanium lattice structures for biomedical implants. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 2257-2268.	3.0	46
23	Pharmaceutical Excipients and Drug Metabolism: A Mini-Review. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8224.	4.1	32
24	Reconfigurable Multipoint Forming Using Waffle-Type Elastic Cushion and Variable Loading Profile. <i>Materials</i> , 2020, 13, 4506.	2.9	4
25	Additive Manufacturing Technologies for Drug Delivery Applications. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119245.	5.2	71
26	Cosm-nutraceutical nanovesicles for acne treatment: Physicochemical characterization and exploratory clinical experimentation. <i>International Journal of Pharmaceutics</i> , 2020, 577, 119092.	5.2	44
27	Controlling the Properties of Additively Manufactured Cellular Structures Using Machine Learning Approaches. <i>Advanced Engineering Materials</i> , 2020, 22, 1901338.	3.5	51
28	<sup>1</sup> H NMR quantification of spray dried and spray freeze-dried saccharide carriers in dry powder inhaler formulations. <i>International Journal of Pharmaceutics</i> , 2019, 564, 318-328.	5.2	4
29	Patients'™ and prescribers'™ perception of contact lenses as a potential ocular drug delivery system. <i>Contact Lens and Anterior Eye</i> , 2019, 42, 190-195.	1.7	7
30	Perceptions by Adult Patients With Type 1 and 2 Diabetes of Current and Advanced Technologies of Blood Glucose Monitoring: A Prospective Study. <i>Canadian Journal of Diabetes</i> , 2019, 43, 27-33.	0.8	4
31	Tailoring selective laser melting process for titanium drug-delivering implants with releasing micro-channels. <i>Additive Manufacturing</i> , 2018, 20, 144-155.	3.0	45
32	Fused Deposition Modeling for Unmanned Aerial Vehicles (UAVs): A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1700552.	3.5	104
33	Adherence of <i>Pseudomonas aeruginosa</i> onto surfactant-laden contact lenses. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 91-99.	5.0	5
34	The use of albumin solid dispersion to enhance the solubility of unionizable drugs. <i>Pharmaceutical Development and Technology</i> , 2018, 23, 732-738.	2.4	7
35	Understanding the compaction behaviour of low-substituted HPC: macro, micro, and nano-metric evaluations. <i>Pharmaceutical Development and Technology</i> , 2018, 23, 442-453.	2.4	5
36	Additive Manufactured Sandwich Composite/ABS Parts for Unmanned Aerial Vehicle Applications. <i>Polymers</i> , 2018, 10, 1262.	4.5	55

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37	Oral Modified Release Multiple-Unit Particulate Systems: Compressed Pellets, Microparticles and Nanoparticles. <i>Pharmaceutics</i> , 2018, 10, 176.	4.5	44
38	Microfabrication of Net Shape Zirconia/Alumina Nanocomposite Micro Parts. <i>Nanomaterials</i> , 2018, 8, 593.	4.1	12
39	Fatty Acid Based Microemulsions to Combat Ophthalmia Neonatorum Caused by <i>Neisseria gonorrhoeae</i> and <i>Staphylococcus aureus</i> . <i>Nanomaterials</i> , 2018, 8, 51.	4.1	28
40	Additive Manufacturing of Porous Structures for Unmanned Aerial Vehicles Applications. <i>Advanced Engineering Materials</i> , 2018, 20, 1800290.	3.5	36
41	Thermal energy storage using metal-organic framework materials. <i>Applied Energy</i> , 2017, 186, 509-519.	10.1	69
42	Three-Dimensional Microstructured Lattices for Oil Sensing. <i>Energy &amp; Fuels</i> , 2017, 31, 2524-2529.	5.1	35
43	Net-shape manufacturing using hybrid selective laser melting/hot isostatic pressing. <i>Rapid Prototyping Journal</i> , 2017, 23, 720-726.	3.2	34
44	Stainless steel with tailored porosity using canister-free hot isostatic pressing for improved osseointegration implants. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9384-9394.	5.8	22
45	Production of high-precision micro metallic components by electroforming process. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1325-1330.	4.7	11
46	Manufacturing of metallic micro-components using hybrid soft lithography and micro-electrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 445-452.	3.0	38
47	Nanoparticle-Laden Contact Lens for Controlled Ocular Delivery of Prednisolone: Formulation Optimization Using Statistical Experimental Design. <i>Pharmaceutics</i> , 2016, 8, 14.	4.5	56
48	Adding functionality with additive manufacturing: Fabrication of titanium-based antibiotic eluting implants. <i>Materials Science and Engineering C</i> , 2016, 64, 407-415.	7.3	67
49	An iterative approach of hot isostatic pressing tooling design for net-shape IN718 superalloy parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1835-1845.	3.0	25
50	Manufacturing of Ti-6Al-4V Micro-Implantable Parts Using Hybrid Selective Laser Melting and Micro-Electrical Discharge Machining. <i>Advanced Engineering Materials</i> , 2016, 18, 1544-1549.	3.5	53
51	Efficient approach to enhance drug solubility by particle engineering of bovine serum albumin. <i>International Journal of Pharmaceutics</i> , 2016, 515, 740-748.	5.2	22
52	Fatty acid microemulsion for the treatment of neonatal conjunctivitis: quantification, characterisation and evaluation of antimicrobial activity. <i>Drug Delivery and Translational Research</i> , 2016, 6, 722-734.	5.8	11
53	Bifilm defects and porosity in Al cast alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 1173-1179.	3.0	27
54	The development of TiNi-based negative Poisson's ratio structure using selective laser melting. <i>Acta Materialia</i> , 2016, 105, 75-83.	7.9	231

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55	Graphene-Alumina Nanocomposites with Improved Mechanical Properties for Biomedical Applications. ACS Applied Materials & Interfaces, 2016, 8, 2607-2616.	8.0	67
56	Nano-engineering chitosan particles to sustain the release of promethazine from orodispersibles. Carbohydrate Polymers, 2015, 131, 447-461.	10.2	20
57	In-situ shelling via selective laser melting: Modelling and microstructural characterisation. Materials and Design, 2015, 87, 845-853.	7.0	31
58	Influence of processing conditions on strut structure and compressive properties of cellular lattice structures fabricated by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 188-197.	5.6	289
59	A methodological evaluation and predictive in silico investigation into the multi-functionality of arginine in directly compressed tablets. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 272-281.	4.3	0
60	New Generation of Orally Disintegrating Tablets for Sustained Drug Release: A Propitious Outlook. Current Drug Delivery, 2015, 12, 652-667.	1.6	20
61	A novel concentration dependent amino acid ion pair strategy to mediate drug permeation using indomethacin as a model insoluble drug. European Journal of Pharmaceutical Sciences, 2014, 62, 124-131.	4.0	19
62	Fabrication and characterization of stabilised zirconia micro parts via slip casting and soft moulding. Scripta Materialia, 2013, 69, 433-436.	5.2	28
63	A systematic and mechanistic evaluation of aspartic acid as filler for directly compressed tablets containing trimethoprim and trimethoprim aspartate. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 83, 468-476.	4.3	4
64	Effects of Particle Size on Soft Lithography Process, the Green and Sintered Micro Alumina Parts. International Journal of Applied Ceramic Technology, 2013, 10, 1014-1022.	2.1	6
65	Ceramic nanocomposite by electrodeposition of nickel into porous alumina matrix. , 2012, , .		1
66	Preparation and Characterization of Amino Acids-Based Trimethoprim Salts. Pharmaceutics, 2012, 4, 179-196.	4.5	26
67	Use of Amino Acids as Counterions Improves the Solubility of the BCS II Model Drug, Indomethacin. Current Drug Delivery, 2011, 8, 363-372.	1.6	38
68	Systems biology approach to study permeability of paracetamol and its solid dispersion. International Journal of Pharmaceutics, 2011, 417, 272-279.	5.2	20
69	A soft moulding process for manufacture of net-shape ceramic microcomponents. International Journal of Advanced Manufacturing Technology, 2010, 47, 147-152.	3.0	21
70	Fabrication of Al <sub>2</sub> O <sub>3</sub> /SiC Composite Microcomponents using Non-aqueous Suspension. Advanced Engineering Materials, 2009, 11, 101-105.	3.5	26