

# 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	Influence of processing conditions on strut structure and compressive properties of cellular lattice structures fabricated by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 188-197.	5.6	289
2	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
3	Fused Deposition Modeling for Unmanned Aerial Vehicles (UAVs): A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1700552.	3.5	104
4	Additive Manufacturing Technologies for Drug Delivery Applications. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119245.	5.2	71
5	Powder-based laser hybrid additive manufacturing of metals: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 63-96.	3.0	70
6	Thermal energy storage using metal-organic framework materials. <i>Applied Energy</i> , 2017, 186, 509-519.	10.1	69
7	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
8	Graphene-Alumina Nanocomposites with Improved Mechanical Properties for Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2607-2616.	8.0	67
9	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
10	Additive Manufactured Sandwich Composite/ABS Parts for Unmanned Aerial Vehicle Applications. <i>Polymers</i> , 2018, 10, 1262.	4.5	55
11	4D Printing of Origami Structures for Minimally Invasive Surgeries Using Functional Scaffold. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 332.	2.5	55
12	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
13	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
14	Controlling the Properties of Additively Manufactured Cellular Structures Using Machine Learning Approaches. <i>Advanced Engineering Materials</i> , 2020, 22, 1901338.	3.5	51
15	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
16	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
17	Oral Modified Release Multiple-Unit Particulate Systems: Compressed Pellets, Microparticles and Nanoparticles. <i>Pharmaceutics</i> , 2018, 10, 176.	4.5	44
18	Cosm-nutraceutical nanovesicles for acne treatment: Physicochemical characterization and exploratory clinical experimentation. <i>International Journal of Pharmaceutics</i> , 2020, 577, 119092.	5.2	44

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19	Micro-fabrication of ceramics: Additive manufacturing and conventional technologies. Journal of Advanced Ceramics, 2021, 10, 1-27.	17.4	44
20	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
21	Manufacturing of metallic micro-components using hybrid soft lithography and micro-electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 445-452.	3.0	38
22	3DP Printing of Oral Solid Formulations: A Systematic Review. Pharmaceutics, 2021, 13, 358.	4.5	37
23	Additive Manufacturing of Porous Structures for Unmanned Aerial Vehicles Applications. Advanced Engineering Materials, 2018, 20, 1800290.	3.5	36
24	Three-Dimensional Microstructured Lattices for Oil Sensing. Energy & Fuels, 2017, 31, 2524-2529.	5.1	35
25	Net-shape manufacturing using hybrid selective laser melting/hot isostatic pressing. Rapid Prototyping Journal, 2017, 23, 720-726.	3.2	34
26	4D Printing of NiTi Auxetic Structure with Improved Ballistic Performance. Micromachines, 2020, 11, 745.	2.9	33
27	Pharmaceutical Excipients and Drug Metabolism: A Mini-Review. International Journal of Molecular Sciences, 2020, 21, 8224.	4.1	32
28	In-situ shelling via selective laser melting: Modelling and microstructural characterisation. Materials and Design, 2015, 87, 845-853.	7.0	31
29	Fabrication and characterization of stabilised zirconia micro parts via slip casting and soft moulding. Scripta Materialia, 2013, 69, 433-436.	5.2	28
30	Fatty Acid Based Microemulsions to Combat Ophthalmia Neonatorum Caused by Neisseria gonorrhoeae and Staphylococcus aureus. Nanomaterials, 2018, 8, 51.	4.1	28
31	Bifilm defects and porosity in Al cast alloys. International Journal of Advanced Manufacturing Technology, 2016, 86, 1173-1179.	3.0	27
32	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
33	Preparation and Characterization of Amino Acids-Based Trimethoprim Salts. Pharmaceutics, 2012, 4, 179-196.	4.5	26
34	An iterative approach of hot isostatic pressing tooling design for net-shape IN718 superalloy parts. International Journal of Advanced Manufacturing Technology, 2016, 83, 1835-1845.	3.0	25
35	Porosity, cracks, and mechanical properties of additively manufactured tooling alloys: a review. Advances in Manufacturing, 2022, 10, 175-204.	6.1	24
36	Efficient approach to enhance drug solubility by particle engineering of bovine serum albumin. International Journal of Pharmaceutics, 2016, 515, 740-748.	5.2	22

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37	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
38	A soft moulding process for manufacture of net-shape ceramic microcomponents. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 47, 147-152.	3.0	21
39	Quercetin loaded cosm-nutraceutical electrospun composite nanofibers for acne alleviation: Preparation, characterization and experimental clinical appraisal. <i>International Journal of Pharmaceutics</i> , 2022, 612, 121309.	5.2	21
40	Systems biology approach to study permeability of paracetamol and its solid dispersion. <i>International Journal of Pharmaceutics</i> , 2011, 417, 272-279.	5.2	20
41	Nano-engineering chitosan particles to sustain the release of promethazine from orodispersables. <i>Carbohydrate Polymers</i> , 2015, 131, 447-461.	10.2	20
42	New Generation of Orally Disintegrating Tablets for Sustained Drug Release: A Propitious Outlook. <i>Current Drug Delivery</i> , 2015, 12, 652-667.	1.6	20
43	A novel concentration dependent amino acid ion pair strategy to mediate drug permeation using indomethacin as a model insoluble drug. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 62, 124-131.	4.0	19
44	Fabrication and Optimisation of Ti-6Al-4V Lattice-Structured Total Shoulder Implants Using Laser Additive Manufacturing. <i>Materials</i> , 2022, 15, 3095.	2.9	18
45	Multistage Tool Path Optimisation of Single-Point Incremental Forming Process. <i>Materials</i> , 2021, 14, 6794.	2.9	13
46	Microfabrication of Net Shape Zirconia/Alumina Nanocomposite Micro Parts. <i>Nanomaterials</i> , 2018, 8, 593.	4.1	12
47	Laser Powder Bed Fusion of Ti-6Al-2Sn-4Zr-6Mo Alloy and Properties Prediction Using Deep Learning Approaches. <i>Materials</i> , 2021, 14, 2056.	2.9	12
48	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
49	Production of high-precision micro metallic components by electroforming process. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1325-1330.	4.7	11
50	Fructose malabsorption: causes, diagnosis and treatment. <i>British Journal of Nutrition</i> , 2022, 127, 481-489.	2.3	10
51	The Impact of Natural and Synthetic Polymers in Formulating Micro and Nanoparticles for Anti-Diabetic Drugs. <i>Current Drug Delivery</i> , 2021, 18, 271-288.	1.6	10
52	Microadditive Manufacturing Technologies of 3D Microelectromechanical Systems. <i>Advanced Engineering Materials</i> , 2021, 23, 2100422.	3.5	10
53	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
54	Patientsâ€™ and prescribersâ€™ 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

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55	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
56	Therapeutic applications of capsaicin in humans to target conditions of the respiratory system: A scoping review. Respiratory Medicine, 2022, 194, 106772.	2.9	6
57	Adherence of Pseudomonas aeruginosa onto surfactant-laden contact lenses. Colloids and Surfaces B: Biointerfaces, 2018, 163, 91-99.	5.0	5
58	Understanding the compaction behaviour of low-substituted HPC: macro, micro, and nano-metric evaluations. Pharmaceutical Development and Technology, 2018, 23, 442-453.	2.4	5
59	Efficacy and safety of glucose sensors for delivery of insulin: A Systematic Review. PharmaNutrition, 2021, 18, 100280.	1.7	5
60	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
61	RAFT dispersion polymerization induced self-assembly (PISA) of boronic acid-substituted acrylamides. Polymer Chemistry, 2022, 13, 3750-3755.	3.9	5
62	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
63	<sup>1</sup> H NMR quantification of spray dried and spray freeze-dried saccharide carriers in dry powder inhaler formulations. International Journal of Pharmaceutics, 2019, 564, 318-328.	5.2	4
64	Perceptions by Adult Patients With Type 1 and 2 Diabetes of Current and Advanced Technologies of Blood Glucose Monitoring: A Prospective Study. Canadian Journal of Diabetes, 2019, 43, 27-33.	0.8	4
65	Reconfigurable Multipoint Forming Using Waffle-Type Elastic Cushion and Variable Loading Profile. Materials, 2020, 13, 4506.	2.9	4
66	Influence of Bifilm Defects Generated during Mould Filling on the Tensile Properties of Al-Mg Cast Alloys. Metals, 2022, 12, 160.	2.3	2
67	Development of drug alone and carrier-based GLP-1 dry powder inhaler formulations. International Journal of Pharmaceutics, 2022, 617, 121601.	5.2	2
68	Ceramic nanocomposite by electrodeposition of nickel into porous alumina matrix. , 2012, , .		1
69	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
70	Parts Design and Process Optimization. Advances in Computational Intelligence and Robotics Book Series, 2022, , 25-49.	0.4	0