

# Samson Afewerki

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

1,494  
citations

22  
h-index

38  
g-index

56  
ext. papers

1,903  
ext. citations

8.8  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
52	From Bench to the Clinic: The Path to Translation of Nanotechnology-Enabled mRNA SARS-CoV-2 Vaccines.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 41	19.5	8
51	Bioinspired Self-assembled Fe/Cu-Phenolic Blocks Building of Hierarchical Porous Biomass-Derived Carbon Aerogels for Enhanced Electrocatalytic Oxygen Reduction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128932	5.1	0
50	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 212	19.5	4
49	Nanostructured Non-Newtonian Drug Delivery Barrier Prevents Postoperative Intrapericardial Adhesions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29231-29246	9.5	4
48	Phyco-remediation of swine wastewater as a sustainable model based on circular economy. <i>Journal of Environmental Management</i> , <b>2021</b> , 278, 111534	7.9	24
47	Biom mineralization inspired engineering of nanobiomaterials promoting bone repair. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111776	8.3	6
46	Engineering multifunctional bactericidal nanofibers for abdominal hernia repair. <i>Communications Biology</i> , <b>2021</b> , 4, 233	6.7	9
45	Oxygen-generating microparticles in chondrocytes-laden hydrogels by facile and versatile click chemistry strategy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 205, 111850	6	4
44	Bi/Ti-phenolic network induced biomimetic synthesis of mesoporous hierarchical bimetallic hybrid nanocatalysts with enhanced visible-light photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127518	5.1	2
43	Combined Catalysis for Engineering Bioinspired, Lignin-Based, Long-Lasting, Adhesive, Self-Mending, Antimicrobial Hydrogels. <i>ACS Nano</i> , <b>2020</b> ,	16.7	38
42	Antimicrobial Electrospun Materials <b>2020</b> , 243-263		
41	Oxygen-generating smart hydrogels supporting chondrocytes survival in oxygen-free environments. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 194, 111192	6	13
40	Electrospraying Oxygen-Generating Microparticles for Tissue Engineering Applications. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 1173-1186	7.3	9
39	Printing 3D Hydrogel Structures Employing Low-Cost Stereolithography Technology. <i>Journal of Functional Biomaterials</i> , <b>2020</b> , 11,	4.8	12
38	Fabrication of Polymeric Microparticles by Electrospay: The Impact of Experimental Parameters. <i>Journal of Functional Biomaterials</i> , <b>2020</b> , 11,	4.8	21
37	Enamine/Transition Metal Combined Catalysis: Catalytic Transformations Involving Organometallic Electrophilic Intermediates. <i>Topics in Current Chemistry Collections</i> , <b>2020</b> , 1-27	1.8	2
36	Advances in Antimicrobial and Osteoinductive Biomaterials <b>2020</b> , 3-34		2

35	Efficient Heterogeneous Palladium-Catalyzed Transfer Hydrogenolysis of Benzylic Alcohols by Formic Acid. <i>Synthesis</i> , <b>2020</b> , 52, 2330-2336	2.9	4
34	Advances in dual functional antimicrobial and osteoinductive biomaterials for orthopaedic applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2020</b> , 24, 102143	6	28
33	Sustainable and recyclable heterogenous palladium catalysts from rice husk-derived biosilicates for Suzuki-Miyaura cross-couplings, aerobic oxidations and stereoselective cascade carbocyclizations. <i>Scientific Reports</i> , <b>2020</b> , 10, 6407	4.9	5
32	Dual effective core-shell electrospun scaffolds: Promoting osteoblast maturation and reducing bacteria activity. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109778	8.3	13
31	Recent Advances in Nanostructured Polymer Composites for Biomedical Applications <b>2019</b> , 21-52		3
30	Combination of nejayote and swine wastewater as a medium for <i>Arthrospira maxima</i> and <i>Chlorella vulgaris</i> production and wastewater treatment. <i>Science of the Total Environment</i> , <b>2019</b> , 676, 356-367	10.2	23
29	Bioprinting a Synthetic Smectic Clay for Orthopedic Applications. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900158	10.1	22
28	Synthetic Smectic Clays: Bioprinting a Synthetic Smectic Clay for Orthopedic Applications (Adv. Healthcare Mater. 13/2019). <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, 1970051	10.1	
27	Enamine/Transition Metal Combined Catalysis: Catalytic Transformations Involving Organometallic Electrophilic Intermediates. <i>Topics in Current Chemistry</i> , <b>2019</b> , 377, 38	7.2	7
26	Gelatin-polysaccharide composite scaffolds for 3D cell culture and tissue engineering: Towards natural therapeutics. <i>Bioengineering and Translational Medicine</i> , <b>2019</b> , 4, 96-115	14.8	121
25	Laser Interference Lithography for the Nanofabrication of Stimuli-Responsive Bragg Stacks. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1702715	15.6	26
24	Effect of ionic strength on shear-thinning nanoclay-polymer composite hydrogels. <i>Biomaterials Science</i> , <b>2018</b> , 6, 2073-2083	7.4	54
23	Electrospun nanofiber blend with improved mechanical and biological performance. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 7891-7903	7.3	42
22	Understanding the impact of crosslinked PCL/PEG/GelMA electrospun nanofibers on bactericidal activity. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209386	3.7	23
21	Smart Biomaterials: Recent Advances and Future Directions. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 3809-3817	5.5	99
20	Prolonged Drug-Releasing Fibers Attenuate Alzheimer's Disease-like Pathogenesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36693-36702	9.5	11
19	Sustainable Design for the Direct Fabrication and Highly Versatile Functionalization of Nanocelluloses. <i>Global Challenges</i> , <b>2017</b> , 1, 1700045	4.3	13
18	Cooperative Lewis Acids and Aminocatalysis <b>2017</b> , 345-374		2

17	Cyclopalladated Azobridged Porous Polymers in C–C Bond Forming Reactions. <i>ChemistrySelect</i> , <b>2016</b> , 1, 5801-5804	1.8	7
16	Integrated Heterogeneous Metal/Enzymatic Multiple Relay Catalysis for Eco-Friendly and Asymmetric Synthesis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3932-3940	13.1	26
15	Combinations of Aminocatalysts and Metal Catalysts: A Powerful Cooperative Approach in Selective Organic Synthesis. <i>Chemical Reviews</i> , <b>2016</b> , 116, 13512-13570	68.1	282
14	The Use of Porous Palladium(II)-polyimine in Cooperatively- catalyzed Highly Enantioselective Cascade Transformations. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 2150-2156	5.6	17
13	Highly Enantioselective Control of Dynamic Cascade Transformations by Dual Catalysis: Asymmetric Synthesis of Polysubstituted Spirocyclic Oxindoles. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1266-1272	13.1	51
12	Total Synthesis of Capsaicin Analogues from Lignin-Derived Compounds by Combined Heterogeneous Metal, Organocatalytic and Enzymatic Cascades in One Pot. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 2113-2118	5.6	23
11	Combined heterogeneous metal/chiral amine: multiple relay catalysis for versatile eco-friendly synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3447-51	16.4	45
10	Enantioselective Heterogeneous Synergistic Catalysis for Asymmetric Cascade Transformations. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 2485-2492	5.6	42
9	Efficient and Highly Enantioselective Aerobic Oxidation–Michael–Carbocyclization Cascade Transformations by Integrated Pd(0)-CPG Nanoparticle/Chiral Amine Relay Catalysis. <i>Synthesis</i> , <b>2014</b> , 46, 1303-1310	2.9	15
8	Palladium/chiral amine co-catalyzed enantioselective $\alpha$ -arylation of $\beta$ -unsaturated aldehydes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 878-82	16.4	63
7	Palladium/Chiral Amine Co-catalyzed Enantioselective $\alpha$ -Arylation of $\beta$ -Unsaturated Aldehydes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 912-916	3.6	20
6	A palladium/chiral amine co-catalyzed enantioselective dynamic cascade reaction: synthesis of polysubstituted carbocycles with a quaternary carbon stereocenter. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6050-4	16.4	54
5	A Palladium/Chiral Amine Co-catalyzed Enantioselective Dynamic Cascade Reaction: Synthesis of Polysubstituted Carbocycles with a Quaternary Carbon Stereocenter. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6166-6170	3.6	22
4	Direct regioselective and highly enantioselective intermolecular $\alpha$ -allylic alkylation of aldehydes by a combination of transition-metal and chiral amine catalysts. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2972-7	4.8	69
3	Highly enantioselective cascade transformations by merging heterogeneous transition metal catalysis with asymmetric aminocatalysis. <i>Scientific Reports</i> , <b>2012</b> , 2, 851	4.9	38
2	Catalytic enantioselective $\alpha$ -alkylation of $\beta$ -unsaturated aldehydes by combination of transition-metal- and aminocatalysis: total synthesis of bisabolane sesquiterpenes. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8784-8	4.8	66
1	Off-Cycle Catalyst Cooperativity in Amine/Transition Metal Combined Catalysis: Bicyclo[3.2.0]heptanes as Key Species in Co-Catalytic Enantioselective Carbocyclizations. <i>Advanced Synthesis and Catalysis</i> ,	5.6	