Samson Afewerki

List of Publications by Citations

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	Combinations of Aminocatalysts and Metal Catalysts: A Powerful Cooperative Approach in Selective Organic Synthesis. *Chemical Reviews*, **2016**, 116, 13512-13570	68.1	282
51	Gelatin-polysaccharide composite scaffolds for 3D cell culture and tissue engineering: Towards natural therapeutics. *Bioengineering and Translational Medicine*, **2019**, 4, 96-115	14.8	121
50	Smart Biomaterials: Recent Advances and Future Directions. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3809-3817	5.5	99
49	Direct regiospecific and highly enantioselective intermolecular □allylic alkylation of aldehydes by a combination of transition-metal and chiral amine catalysts. *Chemistry - A European Journal*, **2012**, 18, 2972-7	4.8	69
48	Catalytic enantioselective □alkylation of □unsaturated aldehydes by combination of transition-metal- and aminocatalysis: total synthesis of bisabolane sesquiterpenes. *Chemistry - A European Journal*, **2011**, 17, 8784-8	4.8	66
47	Palladium/chiral amine co-catalyzed enantioselective □arylation of □unsaturated aldehydes. *Angewandte Chemie - International Edition*, **2013**, 52, 878-82	16.4	63
46	Effect of ionic strength on shear-thinning nanoclay-polymer composite hydrogels. *Biomaterials Science*, **2018**, 6, 2073-2083	7.4	54
45	A palladium/chiral amine co-catalyzed enantioselective dynamic cascade reaction: synthesis of polysubstituted carbocycles with a quaternary carbon stereocenter. *Angewandte Chemie - International Edition*, **2013**, 52, 6050-4	16.4	54
44	Highly Enantioselective Control of Dynamic Cascade Transformations by Dual Catalysis: Asymmetric Synthesis of Polysubstituted Spirocyclic Oxindoles. *ACS Catalysis*, **2015**, 5, 1266-1272	13.1	51
43	Combined heterogeneous metal/chiral amine: multiple relay catalysis for versatile eco-friendly synthesis. *Angewandte Chemie - International Edition*, **2014**, 53, 3447-51	16.4	45
42	Enantioselective Heterogeneous Synergistic Catalysis for Asymmetric Cascade Transformations. *Advanced Synthesis and Catalysis*, **2014**, 356, 2485-2492	5.6	42
41	Electrospun nanofiber blend with improved mechanical and biological performance. *International Journal of Nanomedicine*, **2018**, 13, 7891-7903	7.3	42
40	Combined Catalysis for Engineering Bioinspired, Lignin-Based, Long-Lasting, Adhesive, Self-Mending, Antimicrobial Hydrogels. *ACS Nano*, **2020**,	16.7	38
39	Highly enantioselective cascade transformations by merging heterogeneous transition metal catalysis with asymmetric aminocatalysis. *Scientific Reports*, **2012**, 2, 851	4.9	38
38	Advances in dual functional antimicrobial and osteoinductive biomaterials for orthopaedic applications. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2020**, 24, 102143	6	28
37	Laser Interference Lithography for the Nanofabrication of Stimuli-Responsive Bragg Stacks. *Advanced Functional Materials*, **2018**, 28, 1702715	15.6	26
36	Integrated Heterogeneous Metal/Enzymatic Multiple Relay Catalysis for Eco-Friendly and Asymmetric Synthesis. *ACS Catalysis*, **2016**, 6, 3932-3940	13.1	26

35	Phyco-remediation of swine wastewater as a sustainable model based on circular economy. *Journal of Environmental Management*, **2021**, 278, 111534	7.9	24
34	Combination of nejayote and swine wastewater as a medium for Arthrospira maxima and Chlorella vulgaris production and wastewater treatment. *Science of the Total Environment*, **2019**, 676, 356-367	10.2	23
33	Total Synthesis of Capsaicin Analogues from Lignin-Derived Compounds by Combined Heterogeneous Metal, Organocatalytic and Enzymatic Cascades in One Pot. *Advanced Synthesis and Catalysis*, **2014**, 356, 2113-2118	5.6	23
32	Understanding the impact of crosslinked PCL/PEG/GelMA electrospun nanofibers on bactericidal activity. *PLoS ONE*, **2018**, 13, e0209386	3.7	23
31	Bioprinting a Synthetic Smectic Clay for Orthopedic Applications. *Advanced Healthcare Materials*, **2019**, 8, e1900158	10.1	22
30	A Palladium/Chiral Amine Co-catalyzed Enantioselective Dynamic Cascade Reaction: Synthesis of Polysubstituted Carbocycles with a Quaternary Carbon Stereocenter. *Angewandte Chemie*, **2013**, 125, 6166-6170	3.6	22
29	Fabrication of Polymeric Microparticles by Electrospray: The Impact of Experimental Parameters. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	21
28	Palladium/Chiral Amine Co-catalyzed Enantioselective □Arylation of □Unsaturated Aldehydes. *Angewandte Chemie*, **2013**, 125, 912-916	3.6	20
27	The Use of Porous Palladium(II)-polyimine in Cooperatively- catalyzed Highly Enantioselective Cascade Transformations. *Advanced Synthesis and Catalysis*, **2015**, 357, 2150-2156	5.6	17
26	Efficient and Highly Enantioselective Aerobic Oxidation□Michael□Carbocyclization Cascade Transformations by Integrated Pd(0)-CPG Nanoparticle/Chiral Amine Relay Catalysis. *Synthesis*, **2014**, 46, 1303-1310	2.9	15
25	Sustainable Design for the Direct Fabrication and Highly Versatile Functionalization of Nanocelluloses. *Global Challenges*, **2017**, 1, 1700045	4.3	13
24	Dual effective core-shell electrospun scaffolds: Promoting osteoblast maturation and reducing bacteria activity. *Materials Science and Engineering C*, **2019**, 103, 109778	8.3	13
23	Oxygen-generating smart hydrogels supporting chondrocytes survival in oxygen-free environments. *Colloids and Surfaces B: Biointerfaces*, **2020**, 194, 111192	6	13
22	Printing 3D Hydrogel Structures Employing Low-Cost Stereolithography Technology. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	12
21	Prolonged Drug-Releasing Fibers Attenuate Alzheimer□s Disease-like Pathogenesis. *ACS Applied Materials & Interfaces*, **2018**, 10, 36693-36702	9.5	11
20	Electrospraying Oxygen-Generating Microparticles for Tissue Engineering Applications. *International Journal of Nanomedicine*, **2020**, 15, 1173-1186	7.3	9
19	Engineering multifunctional bactericidal nanofibers for abdominal hernia repair. *Communications Biology*, **2021**, 4, 233	6.7	9
18	From Bench to the Clinic: The Path to Translation of Nanotechnology-Enabled mRNA SARS-CoV-2 Vaccines.. *Nano-Micro Letters*, **2022**, 14, 41	19.5	8

17	Cyclopalladated Azo□nked Porous Polymers in C□ Bond Forming Reactions. *ChemistrySelect*, **2016**, 1, 5801-5804	1.8	7
16	Enamine/Transition Metal Combined Catalysis: Catalytic Transformations Involving Organometallic Electrophilic Intermediates. *Topics in Current Chemistry*, **2019**, 377, 38	7.2	7
15	Biomineralization inspired engineering of nanobiomaterials promoting bone repair. *Materials Science and Engineering C*, **2021**, 120, 111776	8.3	6
14	Sustainable and recyclable heterogenous palladium catalysts from rice husk-derived biosilicates for Suzuki-Miyaura cross-couplings, aerobic oxidations and stereoselective cascade carbocyclizations. *Scientific Reports*, **2020**, 10, 6407	4.9	5
13	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. *Nano-Micro Letters*, **2021**, 13, 212	19.5	4
12	Efficient Heterogeneous Palladium-Catalyzed Transfer Hydrogenolysis of Benzylic Alcohols by Formic Acid. *Synthesis*, **2020**, 52, 2330-2336	2.9	4
11	Nanostructured Non-Newtonian Drug Delivery Barrier Prevents Postoperative Intrapericardial Adhesions. *ACS Applied Materials & Interfaces*, **2021**, 13, 29231-29246	9.5	4
10	Oxygen-generating microparticles in chondrocytes-laden hydrogels by facile and versatile click chemistry strategy. *Colloids and Surfaces B: Biointerfaces*, **2021**, 205, 111850	6	4
9	Recent Advances in Nanostructured Polymer Composites for Biomedical Applications **2019**, 21-52		3
8	Cooperative Lewis Acids and Aminocatalysis **2017**, 345-374		2
7	Enamine/Transition Metal Combined Catalysis: Catalytic Transformations Involving Organometallic Electrophilic Intermediates. *Topics in Current Chemistry Collections*, **2020**, 1-27	1.8	2
6	Advances in Antimicrobial and Osteoinductive Biomaterials **2020**, 3-34		2
5	Bi/Ti-phenolic network induced biomimetic synthesis of mesoporous hierarchical bimetallic hybrid nanocatalysts with enhanced visible-light photocatalytic performance. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 629, 127518	5.1	2
4	Bioinspired Self-assembled Fe/Cu-Phenolic Blocks Building of Hierarchical Porous Biomass-Derived Carbon Aerogels for Enhanced Electrocatalytic Oxygen Reduction. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 128932	5.1	0
3	Antimicrobial Electrospun Materials **2020**, 243-263		
2	Synthetic Smectic Clays: Bioprinting a Synthetic Smectic Clay for Orthopedic Applications (Adv. Healthcare Mater. 13/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970051	10.1	
1	Off-Cycle Catalyst Cooperativity in Amine/Transition Metal Combined Catalysis: Bicyclo[3.2.0]heptanes as Key Species in Co-Catalytic Enantioselective Carbocyclizations. *Advanced Synthesis and Catalysis*,	5.6	