

# Sameh M Osman

## List of Publications by Year in descending order

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93  
papers

2,128  
citations

201674  
27  
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302126  
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93  
all docs

93  
docs citations

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times ranked

1618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279.	5.2	140
2	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. Bioorganic and Medicinal Chemistry, 2017, 25, 2569-2576.	3.0	79
3	Synthesis, characterisation, biological evaluation and <i>in silico</i> studies of sulphonamide Schiff bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 950-962.	5.2	70
4	Biochemical characterization of recombinant $\hat{I}^2$ -carbonic anhydrase (PgiCAB) identified in the genome of the oral pathogenic bacterium <i>Porphyromonas gingivalis</i> . Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 366-370.	5.2	66
5	Sulfonamide inhibition studies of the $\hat{I}^2$ -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . Bioorganic and Medicinal Chemistry, 2016, 24, 1115-1120.	3.0	57
6	Sulfonamide inhibition studies of the $\hat{I}^3$ -carbonic anhydrase from the oral pathogen <i>Porphyromonas gingivalis</i> . Bioorganic and Medicinal Chemistry Letters, 2014, 24, 240-244.	2.2	50
7	Comparison of the sulfonamide inhibition profiles of the $\hat{I}^\pm$ , $\hat{I}^2$ - and $\hat{I}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1941-1946.	2.2	50
8	Sulfonamide inhibition studies of the $\hat{I}^1$ -carbonic anhydrase from the diatom <i>Thalassiosira weissflogii</i> . Bioorganic and Medicinal Chemistry Letters, 2014, 24, 275-279.	2.2	49
9	Anion inhibition studies of two new $\hat{I}^2$ -carbonic anhydrases from the bacterial pathogen <i>Legionella pneumophila</i> . Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1127-1132.	2.2	49
10	Anion inhibition profiles of $\hat{I}^\pm$ , $\hat{I}^2$ - and $\hat{I}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . Bioorganic and Medicinal Chemistry, 2016, 24, 3413-3417.	3.0	49
11	Inclusion of a 5-fluorouracil moiety in nitrogenous bases derivatives as human carbonic anhydrase IX and XII inhibitors produced a targeted action against MDA-MB-231 and T47D breast cancer cells. European Journal of Medicinal Chemistry, 2020, 190, 112112.	5.5	46
12	Dithiocarbamates effectively inhibit the $\hat{I}^2$ -carbonic anhydrase from the dandruff-producing fungus <i>Malassezia globosa</i> . Bioorganic and Medicinal Chemistry, 2017, 25, 1260-1265.	3.0	45
13	Cloning, characterization and anion inhibition studies of a $\hat{I}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Colwellia psychrerythraea</i> . Bioorganic and Medicinal Chemistry, 2016, 24, 835-840.	3.0	44
14	Novel 1,3,5-triazine-based pyrazole derivatives as potential antitumor agents and EGFR kinase inhibitors: synthesis, cytotoxicity, DNA binding, molecular docking and DFT studies. New Journal of Chemistry, 2021, 45, 13909-13924.	2.8	43
15	Anion inhibition studies of the $\hat{I}^2$ -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1406-1410.	2.2	39
16	Cloning, expression, purification and sulfonamide inhibition profile of the complete domain of the $\hat{I}^1$ -carbonic anhydrase from <i>Plasmodium falciparum</i> . Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4184-4190.	2.2	37
17	Effects on the Physicochemical Properties of Hydrochar Originating from Deep Eutectic Solvent (Urea) Tj ETQq1 1 0.784314 rgBT /Over Chemistry and Engineering, 2022, 10, 4258-4268.	6.7	37
18	Sulfonamide inhibition study of the carbonic anhydrases from the bacterial pathogen <i>Porphyromonas gingivalis</i> : The $\hat{I}^2$ -class (PgiCAB) versus the $\hat{I}^3$ -class (PgiCA) enzymes. Bioorganic and Medicinal Chemistry, 2014, 22, 4537-4543.	3.0	34

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19	Anion inhibition profiles of the complete domain of the $\Gamma$ -carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4410-4414.	3.0	34
20	Inhibition of the $\Gamma$ -carbonic anhydrase from the dandruff-producing fungus <i>Malassezia globosa</i> with monothiocarbamates. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1064-1070.	5.2	33
21	New series of sulfonamides containing amino acid moiety act as effective and selective inhibitors of tumor-associated carbonic anhydrase XII. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 430-434.	5.2	32
22	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4039-4045.	6.4	31
23	A new procedure for the cloning, expression and purification of the $\Gamma$ -carbonic anhydrase from the pathogenic yeast <i>Malassezia globosa</i> , an anti-dandruff drug target. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1156-1161.	5.2	30
24	Inhibition studies of bacterial, fungal and protozoan $\Gamma$ -class carbonic anhydrases with Schiff bases incorporating sulfonamide moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4181-4187.	3.0	29
25	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against $\Gamma$ -, $\Gamma$ -, $\Gamma$ - and $\Gamma$ -class enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6794-6798.	3.0	29
26	Anion inhibition study of the $\Gamma$ -class carbonic anhydrase (PgiCAB) from the oral pathogen <i>Porphyromonas gingivalis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4402-4406.	2.2	28
27	Anion inhibition studies of the dandruff-producing fungus <i>Malassezia globosa</i> $\Gamma$ -carbonic anhydrase MgCA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5194-5198.	2.2	27
28	“A Sweet Combination” Developing Saccharin and Acesulfame K Structures for Selectively Targeting the Tumor-Associated Carbonic Anhydrases IX and XII. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 321-333.	6.4	27
29	Cloning, characterization and anion inhibition studies of a new $\Gamma$ -carbonic anhydrase from the Antarctic bacterium <i>Pseudoalteromonas haloplanktis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4405-4409.	3.0	26
30	Inhibition of mammalian carbonic anhydrase isoforms $\Gamma$ -XIV with a series of phenolic acid esters. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7181-7188.	3.0	26
31	<i>Burkholderia pseudomallei</i> $\Gamma$ -carbonic anhydrase is strongly activated by amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 77-80.	2.2	26
32	Sulfonamide inhibition profile of the $\Gamma$ -carbonic anhydrase identified in the genome of the pathogenic bacterium <i>Burkholderia pseudomallei</i> the etiological agent responsible of melioidosis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 490-495.	2.2	25
33	Silver-embedded epoxy nanocomposites as organic coatings for steel. <i>Progress in Organic Coatings</i> , 2018, 123, 209-222.	3.9	24
34	Hydrazino-methoxy-1,3,5-triazine Derivatives™ Excellent Corrosion Organic Inhibitors of Steel in Acidic Chloride Solution. <i>Molecules</i> , 2016, 21, 714.	3.8	23
35	Caffeine photocatalytic degradation using composites of NiO/TiO <sub>2</sub> and CuO/TiO <sub>2</sub> under UV irradiation. <i>Chemosphere</i> , 2022, 288, 132506.	8.2	22
36	Synthesis of sulfonamides with effective inhibitory action against <i>Porphyromonas gingivalis</i> $\Gamma$ -carbonic anhydrase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4006-4010.	2.2	21

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37	Structure-based identification of SARS-CoV-2 main protease inhibitors from anti-viral specific chemical libraries: an exhaustive computational screening approach. <i>Molecular Diversity</i> , 2021, 25, 1979-1997.	3.9	21
38	A Review on the Effect of Various Chemical Treatments on the Mechanical Properties of Renewable Fiber-Reinforced Composites. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-24.	1.8	21
39	Sulfonamide inhibition profiles of the $\hat{I}^2$ -carbonic anhydrase from the pathogenic bacterium <i>Francisella tularensis</i> responsible of the febrile illness tularemia. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3555-3561.	3.0	20
40	Activation studies of the $\hat{I}^{\pm}$ - and $\hat{I}^2$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> with amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 227-233.	5.2	19
41	The three-tails approach as a new strategy to improve selectivity of action of sulphonamide inhibitors against tumour-associated carbonic anhydrase IX and XII. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 930-939.	5.2	19
42	A one-step procedure for immobilising the thermostable carbonic anhydrase (SspCA) on the surface membrane of <i>Escherichia coli</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1120-1128.	5.2	18
43	The first activation study of a $\hat{I}^2$ -carbonic anhydrase: TweCA $\hat{I}^2$ from the diatom <i>Thalassiosira weissflogii</i> is effectively activated by amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 680-685.	5.2	18
44	Appraisal of anti-protozoan activity of nitroaromatic benzenesulfonamides inhibiting carbonic anhydrases from <i>Trypanosoma cruzi</i> and <i>Leishmania donovani</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1164-1171.	5.2	18
45	Dithiocarbamates with potent inhibitory activity against the <i>Saccharomyces cerevisiae</i> $\hat{I}^2$ -carbonic anhydrase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 132-136.	5.2	17
46	Investigation of Weight Fraction and Alkaline Treatment on Catechu Linnaeus/Hibiscus cannabinus/Sansevieria Ehrenbergii Plant Fibers-Reinforced Epoxy Hybrid Composites. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-9.	1.8	17
47	1,3,5-Triazine-based polymer: synthesis, characterization and application for immobilization of silver nanoparticles. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	16
48	Anion inhibition profiles of the $\hat{I}^3$ -carbonic anhydrase from the pathogenic bacterium <i>Burkholderia pseudomallei</i> responsible of melioidosis and highly drug resistant to common antibiotics. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 575-580.	3.0	16
49	Activation studies with amines and amino acids of the $\hat{I}^2$ -carbonic anhydrase encoded by the <i>Rv3273</i> gene from the pathogenic bacterium <i>Mycobacterium tuberculosis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 364-369.	5.2	16
50	Phenyl(thio)phosphon(amid)ate Benzenesulfonamides as Potent and Selective Inhibitors of Human Carbonic Anhydrases II and VII Counteract Allodynia in a Mouse Model of Oxaliplatin-Induced Neuropathy. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 5185-5200.	6.4	16
51	Integrating Nanomaterial and High-Performance Fuzzy-Based Machine Learning Approach for Green Energy Conversion. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-11.	2.7	16
52	Understanding flow chemistry for the production of active pharmaceutical ingredients. <i>IScience</i> , 2022, 25, 103892.	4.1	16
53	Comparison of the amine/amino acid activation profiles of the $\hat{I}^2$ - and $\hat{I}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Burkholderia pseudomallei</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 25-30.	5.2	15
54	Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting <i>Mycobacterium tuberculosis</i> and <i>Vibrio cholerae</i> . <i>Bioorganic Chemistry</i> , 2019, 86, 183-186.	4.1	15

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55	Sulfonamide/sulfamate switch with a series of piperaziny lureido derivatives: Synthesis, kinetic and in silico evaluation as carbonic anhydrase isoforms I, II, IV, and IX inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2020, 186, 111896.	5.5	15
56	Appliance of the piperidiny l-hydrazidoureido linker to benzenesulfonamide compounds: Synthesis, in vitro and in silico evaluation of potent carbonic anhydrase II, IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2020, 98, 103728.	4.1	15
57	Pharmacoinformatics approach based identification of potential Nsp15 endoribonuclease modulators for SARS-CoV-2 inhibition. <i>Archives of Biochemistry and Biophysics</i> , 2021, 700, 108771.	3.0	15
58	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113875.	5.5	15
59	Thermal and light irradiation effects on the electrocatalytic performance of hemoglobin modified Co <sub>3</sub> O <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub> nanomaterials for the oxygen evolution reaction. <i>Nanoscale</i> , 2020, 12, 8477-8484.	5.6	14
60	Inhibition of $\hat{1}\pm$ , $\hat{1}^2$ - and $\hat{1}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> with aromatic sulphonamides and clinically licenced drugs â€“ a joint docking/molecular dynamics study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 469-479.	5.2	14
61	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms Iâ€“XIV. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6453-6457.	2.8	13
62	One pot synthesis, molecular structure and spectroscopic studies (X-ray, IR, NMR, UVâ€“Vis) of novel 2-(4,6-dimethoxy-1,3,5-triazin-2-yl) amino acid ester derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 159, 184-198.	3.9	13
63	Sulfonamide inhibition studies of the $\hat{1}^3$ -carbonic anhydrase from the Antarctic bacterium <i>Colwellia psychrerythraea</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1253-1259.	2.2	13
64	Anion inhibitors of the $\hat{1}^2$ -carbonic anhydrase from the pathogenic bacterium responsible of tularemia, <i>Francisella tularensis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4800-4804.	3.0	13
65	Extending the $\hat{1}^3$ -class carbonic anhydrases inhibition profiles with phenolic compounds. <i>Bioorganic Chemistry</i> , 2019, 93, 103336.	4.1	13
66	Recycling electronic waste: Prospects in green catalysts design. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 25, 100357.	5.9	13
67	Aromatic Sulfonamides including a Sulfonic Acid Tail: New Membrane Impermeant Carbonic Anhydrase Inhibitors for Targeting Selectively the Cancer-Associated Isoforms. <i>International Journal of Molecular Sciences</i> , 2022, 23, 461.	4.1	12
68	Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 701-706.	5.2	11
69	Cloning, expression and purification of the $\hat{1}\pm$ -carbonic anhydrase from the mantle of the Mediterranean mussel, <i>Mytilus galloprovincialis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1029-1035.	5.2	11
70	Phosphoramidates are the first phosphorus-based zinc binding motif to show inhibition of $\hat{1}^2$ -class carbonic anhydrases from bacteria, fungi, and protozoa. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 59-64.	5.2	11
71	Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 885-892.	5.2	10
72	Synthesis of Nâ€“2-phenyl-N-hydroxyureas and investigation of their inhibitory activities on human carbonic anhydrases. <i>Bioorganic Chemistry</i> , 2018, 78, 1-6.	4.1	9

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73	Activation Studies of the $\hat{\Gamma}^3$ -Carbonic Anhydrases from the Antarctic Marine Bacteria <i>Pseudoalteromonas haloplanktis</i> and <i>Colwellia psychrerythraea</i> with Amino Acids and Amines. <i>Marine Drugs</i> , 2019, 17, 238.	4.6	9
74	Artificial Coal: Facile and Green Production Method via Low-Temperature Hydrothermal Carbonization of Lignocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3335-3345.	6.7	9
75	Benzenesulfonamides incorporating nitrogenous bases show effective inhibition of $\hat{\Gamma}^2$ -carbonic anhydrases from the pathogenic fungi <i>Cryptococcus neoformans</i> , <i>Candida glabrata</i> and <i>Malassezia globosa</i> . <i>Bioorganic Chemistry</i> , 2019, 86, 39-43.	4.1	8
76	Inhibition survey with phenolic compounds against the $\hat{\Gamma}^1$ - and $\hat{\Gamma}^2$ -class carbonic anhydrases from the marine diatom <i>Thalassiosira weissflogii</i> and protozoan <i>Plasmodium falciparum</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 377-382.	5.2	8
77	Expression and characterization of a recombinant psychrophilic $\hat{\Gamma}^3$ -carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus <i>Nostoc</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 810-817.	5.2	7
78	Performance Evaluation of Cyclic Stability and Capacitance of Manganese Oxide Modified Graphene Oxide Nanocomposite for Potential Supercapacitor Applications. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-8.	2.7	7
79	Esterification of an Agro-Industrial Waste on Kaolinite-Derived Catalyst Prepared via Microwave Irradiation. <i>Waste and Biomass Valorization</i> , 2022, 13, 3933-3944.	3.4	7
80	Microwave synthesis and thermal properties of polyacrylate derivatives containing itaconic anhydride moieties. <i>Chemistry Central Journal</i> , 2012, 6, 85.	2.6	6
81	Simple Approaches for the Synthesis of AgNPs in Solution and Solid Phase Using Modified Methoxypolyethylene Glycol and Evaluation of Their Antimicrobial Activity. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2353-2362.	6.7	6
82	Experimental Study on the Sound Absorption Properties of Finger Millet Straw, Darbha, and Ripe Bulrush Fibers. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-12.	1.8	6
83	Immobilization of (tartrate-salen)Mn(III) polymer complexes into SBA-15 for catalytic asymmetric epoxidation of alkenes. <i>Molecular Catalysis</i> , 2020, 495, 111146.	2.0	5
84	Benign-by-design nature-inspired bionanoconjugates for energy conversion and storage applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100373.	5.9	5
85	Chitosan-triazinyl-bis(2-aminomethylpyridine) and Chitosan-triazinyl-bis(8-oxyquinoline) Derivatives: New Reagents for Silver Nanoparticle Preparation and Their Effect of Antimicrobial Evaluation. <i>Journal of Chemistry</i> , 2020, 2020, 1-8.	1.9	5
86	The inhibitory effect of boric acid on hypoxia-regulated tumour-associated carbonic anhydrase IX. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 1340-1345.	5.2	5
87	Oligomeric (Salen)Mn(III) Complexes Featuring Tartrate Linkers Immobilized over Layered Double Hydroxide for Catalytically Asymmetric Epoxidation of Unfunctionalized Olefins. <i>Materials</i> , 2020, 13, 4860.	2.9	3
88	Synthesis, characterization and comparative thermal degradation kinetics of s-Triazine based polymers. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	3
89	Glycerol Valorization towards a Benzoxazine Derivative through a Milling and Microwave Sequential Strategy. <i>Molecules</i> , 2022, 27, 632.	3.8	3
90	Nitrogen containing polymers-based triazine: synthesis, characterization and its applications for scavenging of copper(II). <i>Journal of Materials</i> , 2020, 114, 242-250.		2

#	ARTICLE	IF	CITATIONS
91	Investigation of Reinforced Concrete Column Containing Metakaolin and Fly Ash Cementitious Materials. Advances in Civil Engineering, 2022, 2022, 1-13.	0.7	2
92	Microwave Synthesis of Copolymers Based on Itaconic Acid Moiety and Their Utility for Scavenging of Copper (II) and Lead (II). Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 561-576.	2.2	1
93	Mechanical and Durability Studies on Ficus exasperata Leaf Ash Concrete. Advances in Civil Engineering, 2022, 2022, 1-10.	0.7	0