

# Mustafa Durgun

## List of Publications by Year in descending order

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78  
papers

1,826  
citations

236925  
25  
h-index

315739  
38  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel inhibitors with sulfamethazine backbone: synthesis and biological study of multi-target cholinesterases and $\alpha$ -glucosidase inhibitors. Journal of Biomolecular Structure and Dynamics, 2022, 40, 8752-8764.	3.5	54
2	Synthesis of novel photoreactive bis(dithiocarbonate) type xanthates as chain transfer agents and their use in MADIX polymerization of styrene. Polymer Bulletin, 2022, 79, 7635-7654.	3.3	1
3	In silico investigation of Alliin as potential activator for AMPA receptor. Biomedical Physics and Engineering Express, 2022, 8, 015002.	1.2	2
4	Intracellular pH-mediated induction of apoptosis in HeLa cells by a sulfonamide carbonic anhydrase inhibitor. International Journal of Biological Macromolecules, 2022, 201, 37-46.	7.5	10
5	The effect of a bis-structured Schiff base on apoptosis, cytotoxicity, and DNA damage of breast cancer cells. Journal of Biochemical and Molecular Toxicology, 2022, 36, .	3.0	8
6	Benzenesulfonamide derivatives as potent acetylcholinesterase, $\alpha$ -glycosidase, and glutathione S-transferase inhibitors: biological evaluation and molecular docking studies. Journal of Biomolecular Structure and Dynamics, 2021, 39, 5449-5460.	3.5	69
7	Synthesis, Characterization, and Inhibition Study of Novel Substituted Phenylureido Sulfaguanidine Derivatives as $\alpha$ -Glycosidase and Cholinesterase Inhibitors. Chemistry and Biodiversity, 2021, 18, e2000958.	2.1	67
8	Interactions Between Sedative, Analgesic and Anaesthetic Drugs with SARS-CoV-2, ACE-2 and SARS-CoV-2- ACE-2 Complex. Trk Yon Bakim Dernei Dergisi, 2021, .	0.2	1
9	Inhibition of Carbonic Anhydrase IX Promotes Apoptosis through Intracellular pH Level Alterations in Cervical Cancer Cells. International Journal of Molecular Sciences, 2021, 22, 6098.	4.1	24
10	Molecular Docking Demonstration of the Liquorice Chemical Molecules on the Protease and ACE2 of COVID-19 Virus. Current Enzyme Inhibition, 2021, 17, 98-110.	0.4	5
11	Biological effects of bis-hydrazone compounds bearing isovanillin moiety on the aldose reductase. Bioorganic Chemistry, 2021, 117, 105473.	4.1	43
12	Determination of Antibacterial Properties of Some Sulfonamide Compounds by Molecular Docking. SDU Journal of Science, 2021, 16, 458-467.	0.3	1
13	Molecular docking and investigation of 4-(benzylideneamino)- and 4-(benzylamino)-benzenesulfonamide derivatives as potent AChE inhibitors. Chemical Papers, 2020, 74, 1395-1405.	2.2	57
14	Benzenesulfonamide derivatives containing imine and amine groups: Inhibition on human paraoxonase and molecular docking studies. International Journal of Biological Macromolecules, 2020, 146, 1111-1123.	7.5	61
15	Synthesis, characterization, inhibition effects, and molecular docking studies as acetylcholinesterase, $\alpha$ -glycosidase, and carbonic anhydrase inhibitors of novel benzenesulfonamides incorporating 1,3,5-triazine structural motifs. Bioorganic Chemistry, 2020, 100, 103897.	4.1	125
16	Synthesis, characterization, biological evaluation, and in silico studies of novel 1,3,5-triazine-substituted sulfathiazole derivatives. Archiv Der Pharmazie, 2020, 353, e2000102.	4.1	59
17	Synthesis, characterisation, biological evaluation and in silico studies of sulphonamide Schiff bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 950-962.	5.2	70
18	Synthesis and characterization of an A2B2-type miktoarm star copolymer based on poly( $\epsilon$ -caprolactone) and poly(cyclohexene oxide). Polymer Bulletin, 2019, 76, 553-573.	3.3	4

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19	Synthesis and characterization of well-defined end-chain functional macrophotoinitiators of polystyrene and polyacrylonitrile by RAFT/MADIX polymerization. <i>European Polymer Journal</i> , 2019, 119, 102-113.	5.4	16
20	Mg doping levels and annealing temperature induced structural, optical and electrical properties of highly c-axis oriented ZnO:Mg thin films and Al/ZnO:Mg/p-Si/Al heterojunction diode. <i>Thin Solid Films</i> , 2019, 680, 20-30.	1.8	74
21	The chiral boronate-catalyzed asymmetric transfer hydrogenation of various aromatic ketones to high-value alcohols: Preparation and spectroscopic studies. <i>Journal of Organometallic Chemistry</i> , 2019, 890, 1-12.	1.8	14
22	Evaluation of the anticancer potential of a sulphonamide carbonic anhydrase IX inhibitor on cervical cancer cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 703-711.	5.2	20
23	Assessment of the antiproliferative and apoptotic roles of sulfonamide carbonic anhydrase IX inhibitors in HeLa cancer cell line. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 75-86.	5.2	25
24	Synthesis and cytotoxic activities of novel copper and silver complexes of 1,3-diaryltriazene-substituted sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 110-116.	5.2	24
25	Solution processed boron doped ZnO thin films: influence of different boron complexes. <i>Materials Research Express</i> , 2019, 6, 035903.	1.6	27
26	Different Hemi-Salen/Salan Ligand Containing Binuclear Boron-Fluoride Complexes: Synthesis, Spectroscopy, Fluorescence Properties, and Catalysis. <i>Polycyclic Aromatic Compounds</i> , 2019, 39, 248-265.	2.6	14
27	Novel Fluorine Boron Hybrid Complex as Potential Antiproliferative Drugs on Colorectal Cancer Cell Line. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2019, 19, 627-637.	1.7	10
28	Teaching of the NOS in Physics and Chemistry Education: Odds and Evens. <i>Harran Education Journal</i> , 2019, 4, 65-85.	0.1	0
29	The cytotoxic, apoptotic and oxidative effects of carbonic anhydrase IX inhibitor on colorectal cancer cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2018, 50, 107-116.	2.3	20
30	The synthesis and investigation of different cobaloximines by spectroscopic methods. <i>Journal of Molecular Structure</i> , 2018, 1174, 25-31.	3.6	10
31	Synthesis and characterization of novel positively charged organocobaloximes as catalysts for the fixation of CO <sub>2</sub> to cyclic carbonates. <i>Journal of Organometallic Chemistry</i> , 2018, 858, 78-88.	1.8	31
32	Synthesis and Characterization of the Hemi-Salen Ligands and Their Triboron Complexes: Spectroscopy and Examination of Anticancer Properties. <i>Chemistry and Biodiversity</i> , 2018, 15, e1700428.	2.1	12
33	Antiproliferative and Apoptotic Role of Novel Synthesized Cu(II) Complex with 3-(3-(4-fluorophenyl)Triaz-1-en-1-yl) Benzenesulfonamide in Common Cancer Models. <i>Anticancer Research</i> , 2018, 38, 5115-5120.	1.1	11
34	Selective inhibition of carbonic anhydrase-IX by sulphonamide derivatives induces pH and reactive oxygen species-mediated apoptosis in cervical cancer HeLa cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1137-1149.	5.2	27
35	Synthesis of benzoin end-chain functional macrophotoinitiator of poly(d,l-lactide) homopolymer and poly( $\mu$ -caprolactone)-poly(d,l-lactide) diblock copolymer by ROP and their use in photoinduced free radical promoted cationic copolymerization. <i>Polymer Bulletin</i> , 2017, 74, 167-181.	3.3	11
36	Dicobaloxime/organodicobaloximes bridged by different axial groups: synthesis, characterization, spectroscopy, and catalysis. <i>Chemical Papers</i> , 2017, 71, 1705-1720.	2.2	7

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37	Synthesis, characterization, in vitro cytotoxicity and antimicrobial investigation and evaluation of physicochemical properties of novel 4-(2-methylacetamide)benzenesulfonamide derivatives. <i>Bioorganic Chemistry</i> , 2017, 70, 163-172.	4.1	18
38	Two-arm PCL and PLLA macrophotoinitiators with benzoin end-functional groups by combination of ROP and click chemistry and their use in the synthesis of A2B2 type miktoarm star copolymers. <i>Polymer</i> , 2017, 123, 153-168.	3.8	20
39	The apoptotic, cytotoxic and genotoxic effect of novel binuclear boron-fluoride complex on endometrial cancer. <i>BioMetals</i> , 2017, 30, 933-944.	4.1	20
40	Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1305-1312.	5.2	52
41	The Protective Effect of Naringenin-Oxime on Cisplatin-Induced Toxicity in Rats. <i>Biochemistry Research International</i> , 2017, 2017, 1-9.	3.3	44
42	Design, synthesis and characterization of novel dioxime ligand-based cobaloxime compounds for application in the coupling of CO <sub>2</sub> with epoxides. <i>New Journal of Chemistry</i> , 2016, 40, 7901-7910.	2.8	21
43	Synthesis of 4-sulfamoylphenyl-benzylamine derivatives with inhibitory activity against human carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 982-988.	3.0	33
44	Synthesis, molecular structure, spectroscopic characterization, NBO, NLO and NPA analysis and in vitro cytotoxicity study of 3-chloro-N-(4-sulfamoylphenethyl)propanamide with experimental and computational study. <i>Journal of Molecular Structure</i> , 2016, 1114, 95-107.	3.6	20
45	One-step synthesis of a mid-chain functional macrophotoinitiator of a polystyrene-poly( $\epsilon$ -caprolactone) diblock copolymer via simultaneous ATRP and ROP using a dual-functional photoinitiator. <i>Polymer Journal</i> , 2016, 48, 139-145.	2.7	12
46	Synthesis of the Multinuclear Cobaloxime Complexes via Click Chemistry as Catalysts for the Formation of Cyclic Carbonates from Carbon Dioxide and Epoxides. <i>Journal of Chemical Sciences</i> , 2015, 127, 1665-1674.	1.5	5
47	Synthesis, spectroscopic and catalytic properties of some new boron hybrid molecule derivatives by BF <sub>2</sub> and BPh <sub>2</sub> chelation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 62-72.	3.9	21
48	Theoretical and experimental investigation of 4-[(2-hydroxy-3-methylbenzylidene)amino]benzenesulfonamide: Structural and spectroscopic properties, NBO, NLO and NPA analysis. <i>Journal of Molecular Structure</i> , 2015, 1089, 222-232.	3.6	35
49	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2377-2381.	2.2	37
50	Synthesis of mid-chain functional macrophotoinitiators of poly(D,L-lactide) homopolymer and tetrablock poly(D,L-lactide)-poly( $\mu$ -caprolactone) copolymer by ring-opening polymerization. <i>Designed Monomers and Polymers</i> , 2015, 18, 669-677.	1.6	6
51	Mono/multinuclear cobaloxime and organocobaloxime-catalyzed conversion of CO <sub>2</sub> and epoxides to cyclic organic carbonates: Synthesis and characterization. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 24, 98-106.	5.8	25
52	The synthesis, characterization, and electrochemistry of molecular cobaloxime/organocobaloxime: catalysts for cycloaddition of carbon dioxide and epoxides. <i>Journal of Coordination Chemistry</i> , 2014, 67, 2661-2679.	2.2	17
53	4-[[4-(Dimethylamino)benzylidene]amino]benzenesulfonamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o726-o727.	0.2	3
54	The multinuclear cobaloxime complexes-based catalysts for direct synthesis of cyclic carbonate from epichlorohydrin using carbon dioxide: Synthesis and characterization. <i>Inorganica Chimica Acta</i> , 2014, 411, 17-25.	2.4	30

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55	Ketone synthesized cobaloxime/organocobaloxime catalysts for cyclic carbonate synthesis from CO <sub>2</sub> and epoxides: Characterization and electrochemistry. <i>Journal of Organometallic Chemistry</i> , 2014, 767, 150-159.	1.8	28
56	Fluorine/phenyl chelated boron complexes: Synthesis, fluorescence properties and catalyst for transfer hydrogenation of aromatic ketones. <i>Journal of Fluorine Chemistry</i> , 2014, 162, 9-16.	1.7	29
57	The coupling of carbon dioxide and epoxides by phenanthroline derivatives containing different Cu(II) complexes as catalyst. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 113, 432-438.	3.9	12
58	Synthesis, characterization, electrochemical properties and conversions of carbon dioxide to cyclic carbonates mononuclear and multinuclear oxime complexes using as catalyst. <i>Inorganica Chimica Acta</i> , 2013, 394, 635-644.	2.4	17
59	4-(3-Chloro-2,2-dimethylpropanamido)benzenesulfonamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3430-o3430.	0.2	3
60	4-(5-Chloropentanamido)benzenesulfonamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3475-o3476.	0.2	0
61	4-[3-(4-Methylpiperidin-1-yl)propanamido]benzenesulfonamide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3481-o3481.	0.2	0
62	Synthesis of new boron complexes: application to transfer hydrogenation of acetophenone derivatives. <i>Applied Organometallic Chemistry</i> , 2011, 25, 390-394.	3.5	29
63	Silicon containing new salicylaldimine Pd(II) and Co(II) metal complexes as efficient catalysts in transformation of carbon dioxide (CO <sub>2</sub> ) to cyclic carbonates. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1372-1379.	1.8	37
64	The properties of the new Mn(II)-Co(II)-Mn(II)-type hetero-trinuclear oxime metal complexes with N <sub>4</sub> and N <sub>4</sub> O <sub>2</sub> ligands. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010, 67, 423-429.	1.6	3
65	Hetero- and homo-oleptic Ru(II) catalyzed synthesis of cyclic carbonates from CO <sub>2</sub> ; Synthesis, spectroscopic characterization and electrochemical properties. <i>Applied Organometallic Chemistry</i> , 2010, 24, 446-453.	3.5	17
66	Cu(II), Co(II), Ni(II), Mn(II), and Fe(II) metal complexes containing N,N'-bis-(3,4-diaminobenzophenon)-3,5-But-2-salicylaldimine ligand: Synthesis, structural characterization, thermal properties, electrochemistry, and spectroelectrochemistry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 811-818.	3.9	41
67	The orthopalladation dinuclear [Pd(L1)( $\frac{1}{4}$ -OAc)] <sub>2</sub> , [Pd(L2)( $\frac{1}{4}$ -OAc)] <sub>2</sub> and mononuclear [Pd(L3)] <sub>2</sub> complexes with [N, C, O] or [N, O] containing ligands: Synthesis, spectral characterization, electrochemistry and catalytic properties. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 697-706.	1.8	26
68	Conversion of CO <sub>2</sub> into Cyclic Carbonates in the Presence of Metal Complexes as Catalysts. <i>Journal of Chemical Research</i> , 2010, 34, 622-626.	1.3	8
69	Synthesis, Spectral Characterization and Electrochemical Investigations of Mononuclear Cu (II), Ni (II) and Co (II) Metal Complexes Containing Different New <i>vic</i> -dioxime Groups. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2009, 39, 379-387.	0.6	4
70	Synthesis, structural characterization, electrochemistry and spectroelectrochemistry of dinuclear copper(II) metal complexes stabilized by a tetradentate NOOO salicylaldimine ligands. <i>Journal of Molecular Structure</i> , 2009, 927, 69-77.	3.6	17
71	Mono- and dinuclear Pd(II) complexes of different salicylaldimine ligands as catalysts of transfer hydrogenation of nitrobenzene with cyclohexene and Suzuki-Miyaura coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 446-454.	1.8	36
72	Novel vic-dioxime ligands and their poly-metal complexes bearing 1,8-diamino-3,6-dioxaoctane: synthesis, characterization, spectroscopy and electrochemistry. <i>Transition Metal Chemistry</i> , 2008, 33, 29-37.	1.4	23

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73	Carbonic Anhydrase Inhibitors. Novel Sulfanilamide/Acetazolamide Derivatives Obtained by the Tail Approach and Their Interaction with the Cytosolic Isozymes I and II, and the Tumor-Associated Isozyme IX.. ChemInform, 2005, 36, no.	0.0	0
74	Carbonic anhydrase inhibitors. Novel sulfanilamide/acetazolamide derivatives obtained by the tail approach and their interaction with the cytosolic isozymes I and II, and the tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 367-372.	2.2	56
75	Synthesis and Characterization of [2-Oxo-2-(4-methyl)phenyl amino]ethylene Methacrylate- $\alpha$ -styrene Copolymers and Determination of Monomer Reactivity Ratios. Polymer Journal, 2004, 36, 303-309.	2.7	3
76	Determination of kinetic parameters of crystal growth rate of borax in aqueous solution by using the rotating disc technique. Journal of Crystal Growth, 2004, 270, 604-614.	1.5	3
77	The Novel bis-dioxime-based and Boronic acid-capped Groups Containing Fe(II) and Co(II) Complexes: Synthesis, Characterization, and Spectroscopy. Journal of the Turkish Chemical Society, Section A: Chemistry, 0, , 11-22.	1.1	0
78	Evaluation of Some Sulfonamide Derivatives as a Potential Inhibitors of The Carbonic Anhydrase IX/XII by ADME and Molecular Docking Method. AdÄ±yaman University Journal of Science, 0, , .	0.0	0