

# Khondaker M Rahman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1709010/publications.pdf>

Version: 2024-02-01

118  
papers

2,586  
citations

236833

25  
h-index

233338

45  
g-index

126  
all docs

126  
docs citations

126  
times ranked

3386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efflux pumps in <i>Mycobacterium tuberculosis</i> and their inhibition to tackle antimicrobial resistance. <i>Trends in Microbiology</i> , 2022, 30, 57-68.	3.5	31
2	Factors influencing the choice of monoclonal antibodies for antibody-drug conjugates. <i>Drug Discovery Today</i> , 2022, 27, 354-361.	3.2	13
3	Strategies for drug repurposing against coronavirus targets. <i>Current Research in Pharmacology and Drug Discovery</i> , 2022, 3, 100072.	1.7	11
4	Development and exploration of novel substituted thiosemicarbazones as inhibitors of aldose reductase via in vitro analysis and computational study. <i>Scientific Reports</i> , 2022, 12, 5734.	1.6	7
5	Novel pyrrolobenzodiazepine benzofused hybrid molecules inhibit NF- $\kappa$ B activity and synergise with bortezomib and ibrutinib in hematological cancers. <i>Haematologica</i> , 2021, 106, 958-967.	1.7	4
6	Whole Genome Sequencing of <i>Staphylococcus aureus</i> SA-1199B Reveals Previously Unreported Mutations. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106225.	1.1	0
7	Therapeutic Intervention of COVID-19 by Natural Products: A Population-Specific Survey Directed Approach. <i>Molecules</i> , 2021, 26, 1191.	1.7	5
8	Development of photoactivable phenanthroline-based manganese(I) CO-Releasing molecules (PhotoCORMs) active against ESKAPE bacteria and bacterial biofilms. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113172.	2.6	11
9	A New Cyclohexanone Derivative from the Leaves of <i>Bridelia stipularis</i> . <i>Chemistry of Natural Compounds</i> , 2021, 57, 455-458.	0.2	2
10	Antibody-Drug Conjugates—A Tutorial Review. <i>Molecules</i> , 2021, 26, 2943.	1.7	96
11	Indole alkaloids from the leaves of <i>Ravenia spectabilis</i> engl. with activity against pancreatic cancer cell line. <i>Phytochemistry</i> , 2021, 186, 112744.	1.4	8
12	Current Trends and Future Approaches in Small-Molecule Therapeutics for COVID-19. <i>Current Medicinal Chemistry</i> , 2021, 28, 3803-3824.	1.2	8
13	Schiff bases of sulphonamides as a new class of antifungal agent against multidrug-resistant <i>Candida auris</i> . <i>MicrobiologyOpen</i> , 2021, 10, e1218.	1.2	18
14	Synthesis, microbiological evaluation and structure activity relationship analysis of linezolid analogues with different C5-acylamino substituents. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 49, 116397.	1.4	8
15	Development of coumarin-thiosemicarbazone hybrids as aldose reductase inhibitors: Biological assays, molecular docking, simulation studies and ADME evaluation. <i>Bioorganic Chemistry</i> , 2021, 115, 105164.	2.0	15
16	Solid-state epimerisation and disproportionation of pilocarpine HCl: Why we need a 5-stage approach to validate melting point measurements for heat-sensitive drugs. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118869.	2.6	7
17	Probing sulphamethazine and sulphamethoxazole based Schiff bases as urease inhibitors; synthesis, characterization, molecular docking and ADME evaluation. <i>Bioorganic Chemistry</i> , 2020, 105, 104336.	2.0	22
18	A Cyclodextrin-Stabilized Spermine-Tagged Drug Triplex that Targets Theophylline to the Lungs Selectively in Respiratory Emergency. <i>Advanced Therapeutics</i> , 2020, 3, 2000153.	1.6	2

#	ARTICLE	IF	CITATIONS
19	Integron gene cassettes harboring novel variants of d-alanine-d-alanine ligase confer high-level resistance to d-cycloserine. <i>Scientific Reports</i> , 2020, 10, 20709.	1.6	4
20	Antimicrobial Constituents from <i>Machaerium</i> Pers.: Inhibitory Activities and Synergism of Machaeriols and Machaeridiols against Methicillin-Resistant <i>Staphylococcus aureus</i> , Vancomycin-Resistant <i>Enterococcus faecium</i> , and Permeabilized Gram-Negative Pathogens. <i>Molecules</i> , 2020, 25, 6000.	1.7	8
21	N1-Benzofused Modification of Fluoroquinolones Reduces Activity Against Gram-Negative Bacteria. <i>ACS Omega</i> , 2020, 5, 11923-11934.	1.6	4
22	Identifying the Responses from the Estrogen Receptor-Expressed MCF7 Cells Treated in Anticancer Drugs of Different Modes of Action Using Live-Cell FTIR Spectroscopy. <i>ACS Omega</i> , 2020, 5, 12698-12706.	1.6	10
23	New Broad-Spectrum Antibiotics Containing a Pyrrolbenzodiazepine Ring with Activity against Multidrug-Resistant Gram-Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6941-6958.	2.9	14
24	SAR based in-vitro anticholinesterase and molecular docking studies of nitrogenous progesterone derivatives. <i>Steroids</i> , 2020, 158, 108599.	0.8	13
25	The Aurora B specificity switch is required to protect from non-disjunction at the metaphase/anaphase transition. <i>Nature Communications</i> , 2020, 11, 1396.	5.8	12
26	Development of sulfonamide-based Schiff bases targeting urease inhibition: Synthesis, characterization, inhibitory activity assessment, molecular docking and ADME studies. <i>Bioorganic Chemistry</i> , 2020, 102, 104057.	2.0	35
27	Antibiotic-in-Cyclodextrin-in-Liposomes: Formulation Development and Interactions with Model Bacterial Membranes. <i>Molecular Pharmaceutics</i> , 2020, 17, 2354-2369.	2.3	9
28	UPLC-based assay to assess the hydrophobicity of Antibody-Drug Conjugate (ADC) payloads. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1146, 122075.	1.2	7
29	Evaluating the level of nitroreductase activity in clinical <i>Klebsiella pneumoniae</i> isolates to support strategies for nitro drug and prodrug development. <i>International Journal of Antimicrobial Agents</i> , 2019, 54, 538-546.	1.1	4
30	Effects of Systematic Shortening of Noncovalent C8 Side Chain on the Cytotoxicity and NF- $\kappa$ B Inhibitory Capacity of Pyrrolbenzodiazepines (PBDs). <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2127-2139.	2.9	17
31	Antibiotic resistance breakers: current approaches and future directions. <i>FEMS Microbiology Reviews</i> , 2019, 43, 490-516.	3.9	199
32	Towards identifying the mode of action of drugs using live-cell FTIR spectroscopy. <i>Analyst</i> , The, 2019, 144, 2725-2735.	1.7	19
33	SmvA is an important efflux pump for cationic biocides in <i>Klebsiella pneumoniae</i> and other Enterobacteriaceae. <i>Scientific Reports</i> , 2019, 9, 1344.	1.6	28
34	Region-specific blood-brain barrier transporter changes leads to increased sensitivity to amisulpride in Alzheimer's disease. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 38.	2.4	37
35	Effectiveness of Efflux Pump Inhibitors as Biofilm Disruptors and Resistance Breakers in Gram-Negative (ESKAPEE) Bacteria. <i>Antibiotics</i> , 2019, 8, 229.	1.5	62
36	Noncytotoxic Pyrrolbenzodiazepine-Ciprofloxacin Conjugate with Activity against <i>Mycobacterium tuberculosis</i> . <i>ACS Omega</i> , 2019, 4, 20873-20881.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Abstract 9: Effect of C8-side chain on the cytotoxicity and NF- $\kappa$ B inhibitory capacity of pyrrolobenzodiazepines. , 2019, , .		0
38	Abstract 217: Development of a rapid and efficient methodology to quantitate thiol detection in antibody-drug conjugates (ADCs). , 2019, , .		0
39	Antimicrobial molecules in the lung: formulation challenges and future directions for innovation. Future Medicinal Chemistry, 2018, 10, 575-604.	1.1	14
40	Role of bacterial efflux pumps in biofilm formation. Journal of Antimicrobial Chemotherapy, 2018, 73, 2003-2020.	1.3	300
41	Methylene-linked bis-phenylbenzimidazoles â€” a new scaffold to target telomeric DNA/RNA hybrid duplex. Organic and Biomolecular Chemistry, 2018, 16, 4424-4428.	1.5	3
42	Formation of a Novel C11-Acetone Adduct of a Pyrrolobenzodiazepine (PBD) with Loss of Cytotoxicity. Synlett, 2018, 29, 1112-1116.	1.0	1
43	Lawsonol, a New Bioactive Naphthoquinone Dimer From the Leaves of Lawsonia alba. Chemistry of Natural Compounds, 2018, 54, 26-29.	0.2	5
44	Crispenes F and G, <i>cis</i> -Clerodane Furanoditerpenoids from <i>Tinospora crispa</i> , Inhibit STAT3 Dimerization. Journal of Natural Products, 2018, 81, 236-242.	1.5	18
45	C8-Linked Pyrrolobenzodiazepine Monomers with Inverted Building Blocks Show Selective Activity against Multidrug Resistant Gram-Positive Bacteria. ACS Infectious Diseases, 2018, 4, 158-174.	1.8	20
46	Diverse signalling of the platelet P2Y1 receptor leads to a dichotomy in platelet function. European Journal of Pharmacology, 2018, 827, 58-70.	1.7	19
47	Fusaproliferin, a Fungal Mycotoxin, Shows Cytotoxicity against Pancreatic Cancer Cell Lines. Molecules, 2018, 23, 3288.	1.7	16
48	Synthesis, pharmacological evaluation and docking studies of progesterone and testosterone derivatives as anticancer agents. Steroids, 2018, 136, 22-31.	0.8	21
49	Mapping the Dynamic Functions and Structural Features of AcrB Efflux Pump Transporter Using Accelerated Molecular Dynamics Simulations. Scientific Reports, 2018, 8, 10470.	1.6	29
50	Topical delivery of anthramycin II. Influence of binary and ternary solvent systems. European Journal of Pharmaceutical Sciences, 2018, 121, 59-64.	1.9	13
51	Abstract A125: Fragment-based approach to develop small-molecule STAT3 transcription factor inhibitors. , 2018, , .		0
52	Chapter 4. Pyrrolobenzodiazepines as Transcription Factor Inhibitors: An Overview. RSC Drug Discovery Series, 2018, , 81-124.	0.2	0
53	Abstract 738: Development of an HPLC method for the assessment of hydrophobicity of ADC payloads. , 2018, , .		0
54	Cytotoxic Naphthoquinone and Azaanthraquinone Derivatives from an Endophytic <i>Fusarium solani</i> . Journal of Natural Products, 2017, 80, 1173-1177.	1.5	48

#	ARTICLE	IF	CITATIONS
55	Novel pyridyl nitrofuranyl isoxazolines show antibacterial activity against multiple drug resistant Staphylococcus species. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3971-3979.	1.4	20
56	Topical delivery of anthramycin I. Influence of neat solvents. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 188-195.	1.9	28
57	Sequence-selective binding of C8-conjugated pyrrolobenzodiazepines (PBDs) to DNA. <i>Biophysical Chemistry</i> , 2017, 230, 53-61.	1.5	4
58	Fluoxetine and thioridazine inhibit efflux and attenuate crystalline biofilm formation by <i>Proteus mirabilis</i> . <i>Scientific Reports</i> , 2017, 7, 12222.	1.6	34
59	Triaryl Benzimidazoles as a New Class of Antibacterial Agents against Resistant Pathogenic Microorganisms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6045-6059.	2.9	31
60	<i>In Silico</i> and <i>In Vitro</i> Screening for P-Glycoprotein Interaction with Tenofovir, Darunavir, and Dapivirine: An Antiretroviral Drug Combination for Topical Prevention of Colorectal HIV Transmission. <i>Molecular Pharmaceutics</i> , 2017, 14, 2660-2669.	2.3	13
61	Computational Study Reveals the Molecular Mechanism of the Interaction between the Efflux Inhibitor PA <sup>2</sup> N and the AdeB Transporter from <i>Acinetobacter baumannii</i> . <i>ACS Omega</i> , 2017, 2, 3002-3016.	1.6	25
62	The use of molecular dynamics simulations to evaluate the DNA sequence-selectivity of G <sup>+</sup> A cross-linking PBD <sup>+</sup> duocarmycin dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 102-108.	1.0	6
63	Entwicklung Pyrrolobenzodiazepin(PBD)-haltiger Antikörper-Wirkstoff-Konjugate (ADCs) ausgehend von Anthramycin. <i>Angewandte Chemie</i> , 2017, 129, 474-502.	1.6	13
64	From Anthramycin to Pyrrolobenzodiazepine (PBD)-Containing Antibody-Drug Conjugates (ADCs). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 462-488.	7.2	197
65	From Anthramycin to Pyrrolobenzodiazepine (PBD)-Containing Antibody-Drug Conjugates (ADCs). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 462-488.	7.2	2
66	Abstract 5242: Further evidence that the DNA-interactive Pyrrolobenzodiazepine (PBD) Dimer SJG-136 works through a transcription factor inhibition mechanism. , 2017, , .		0
67	Current Advances in Developing Inhibitors of Bacterial Multidrug Efflux Pumps. <i>Current Medicinal Chemistry</i> , 2016, 23, 1062-1081.	1.2	78
68	Recent advances in targeting the telomeric G-quadruplex DNA sequence with small molecules as a strategy for anticancer therapies. <i>Future Medicinal Chemistry</i> , 2016, 8, 1259-1290.	1.1	56
69	An overview of bacterial efflux pumps and computational approaches to study efflux pump inhibitors. <i>Future Medicinal Chemistry</i> , 2016, 8, 195-210.	1.1	21
70	Covalent Bonding of Pyrrolobenzodiazepines (PBDs) to Terminal Guanine Residues within Duplex and Hairpin DNA Fragments. <i>PLoS ONE</i> , 2016, 11, e0152303.	1.1	13
71	Abstract 2914: Biphenylene and bipyridine connected benzofuran compounds as novel regulators of kRAS transcription. , 2016, , .		0
72	Abstract 1357: In silico design and biological evaluation of benzofused polyamides targeting G-quadruplex DNA structures. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	Effect of hairpin loop structure on reactivity, sequence preference and adduct orientation of a DNA-interactive pyrrolo[2,1-c][1,4]benzodiazepine (PBD) antitumour agent. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4031-4040.	1.5	9
74	Crispene E, a cis-clerodane diterpene inhibits STAT3 dimerization in breast cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3882-3886.	1.5	24
75	Novel 1-(2-aryl-2-adamantyl)piperazine derivatives with antiproliferative activity. <i>European Journal of Medicinal Chemistry</i> , 2015, 93, 281-290.	2.6	25
76	Topical therapies for skin cancer and actinic keratosis. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 77, 279-289.	1.9	46
77	Synthesis and Cytotoxicity of 4-(2-Adamantyl)phenylalkylamines. <i>Letters in Organic Chemistry</i> , 2015, 12, 319-323.	0.2	8
78	Abstract 1986: Effect of the PBD dimer SJG-136 on expression of STAT3 dependent genes. , 2015, , .		2
79	Abstract 4555: C8-linked pyrrolobenzodiazepine (PBD)-benzofused hybrids as transcription factor inhibitors. , 2015, , .		0
80	Abstract 3696: Molecular dynamics simulations of C7/C7 $\epsilon^2$ -linked pyrrolobenzodiazepine (PBD) dimers. , 2015, , .		0
81	Abstract 5419: Structure elucidation of G-quadruplex within the mid-region of the kRAS promoter and identification of stabilizing small molecules as promising transcriptional silencers. , 2015, , .		0
82	Pyrrolobenzodiazepines (PBDs) Do Not Bind to DNA G-Quadruplexes. <i>PLoS ONE</i> , 2014, 9, e105021.	1.1	10
83	Tetracycline analogues with a selective inhibitory effect on HIF-1 $\alpha$ . <i>MedChemComm</i> , 2014, 5, 923.	3.5	3
84	Computational Studies Support the Role of the C7-Sibirosamine Sugar of the Pyrrolobenzodiazepine (PBD) Sibiromycin in Transcription Factor Inhibition. <i>ACS Chemical Biology</i> , 2014, 9, 2432-2440.	1.6	15
85	Abstract 5329: Molecular dynamics simulations of sibiromycin suggest a role for the c7-sugar in transcription factor inhibition. <i>Cancer Research</i> , 2014, 74, 5329-5329.	0.4	3
86	Abstract 5370: Use of molecular dynamics simulations to rationalise the DNA sequence-selectivity of pyrrolobenzodiazepine-MPB conjugates. <i>Cancer Research</i> , 2014, 74, 5370-5370.	0.4	4
87	Abstract 1630: C8-linked pyrrolobenzodiazepine (pbd)-benzofused conjugates with low-picomolar in vitro cytotoxicity. , 2014, , .		0
88	Abstract 1624: A fragment-based approach to the development of small-molecule STAT3 transcription factor inhibitors. , 2014, , .		0
89	Observation of unphosphorylated STAT3 core protein binding to target DNA by PEMSA and X-ray crystallography. <i>FEBS Letters</i> , 2013, 587, 833-839.	1.3	60
90	Investigation of the protein alkylation sites of the STAT3:STAT3 inhibitor Stattic by mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4719-4722.	1.0	45

#	ARTICLE	IF	CITATIONS
91	GC-Targeted C8-Linked Pyrrolobenzodiazepineâ€“Biaryl Conjugates with Femtomolar in Vitro Cytotoxicity and in Vivo Antitumor Activity in Mouse Models. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2911-2935.	2.9	50
92	Abstract 1129: GC-t8-linked pyrrolobenzodiazepine (PBD)-biaryl conjugates with femptomolar <i>in vitro</i> cytotoxicity and <i>in vivo</i> antitumour activity in mouse models of pancreatic and breast cancer.. <i>Cancer Research</i> , 2013, 73, 1129-1129.	0.4	5
93	Abstract 2230: Interaction of SJG-136 with cognate sequences of oncogenic transcription factors.. , 2013, , .		5
94	Abstract 4549: Use of molecular dynamic simulations to explore changes in conformation and sequence preference for DNA-binding biaryl polyamide structures.. , 2013, , .		0
95	Antistaphylococcal activity of DNA-interactive pyrrolobenzodiazepine (PBD) dimers and PBD-biaryl conjugates. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 1683-1696.	1.3	23
96	The prenylated dioxopiperazine alkaloid Cristatin A has selective telomeric DNA G-quadruplex stabilising properties. <i>Chemical Communications</i> , 2012, 48, 8760.	2.2	7
97	Identification of novel telomeric G-quadruplex-targeting chemical scaffolds through screening of three NCI libraries. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3006-3010.	1.0	29
98	Observation of a Single-Stranded DNA/Pyrrolobenzodiazepine Adduct. <i>Journal of the American Chemical Society</i> , 2011, 133, 19376-19385.	6.6	26
99	Observation of the reversibility of a covalent pyrrolobenzodiazepine (PBD) DNA adduct by HPLC/MS and CD spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1632.	1.5	26
100	Effect of base sequence on the DNA cross-linking properties of pyrrolobenzodiazepine (PBD) dimers. <i>Nucleic Acids Research</i> , 2011, 39, 5800-5812.	6.5	38
101	The minor groove-binding agent ELB-21 forms multiple interstrand and intrastrand covalent cross-links with duplex DNA and displays potent bactericidal activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 985-996.	1.3	16
102	Abstract 2321: Pyrrolobenzodiazepine (PBD) antitumour agents as chemical probes to determine the number of base pairs required for DNA minor groove structure. , 2011, , .		0
103	Abstract 1382: Use of polarized light spectroscopy (CD) to study STAT3 folding and STAT3:ligand interactions. , 2011, , .		0
104	Abstract 2517: Hybrid benzofused-biaryl polyamides with selective telomeric G-quadruplex stabilization potential. , 2011, , .		0
105	A novel small-molecule inhibitor of IL-6 signalling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 7029-7032.	1.0	16
106	DNA Sequence Preference and Adduct Orientation of Pyrrolo[2,1-c][1,4]benzodiazepine Antitumor Agents. <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 427-432.	1.3	36
107	Abstract 3506: Rules of DNA adduct formation for pyrrolobenzodiazepine (PBD) dimers. , 2010, , .		0
108	Effect of microwave irradiation on covalent ligandâ€“DNA interactions. <i>Chemical Communications</i> , 2009, , 2875.	2.2	18

#	ARTICLE	IF	CITATIONS
109	Biaryl polyamides as a new class of DNA quadruplex-binding ligands. <i>Chemical Communications</i> , 2009, , 4097.	2.2	40
110	The Pyrrolobenzodiazepine Dimer SJG-136 Forms Sequence-Dependent Intrastrand DNA Cross-Links and Monoalkylated Adducts in Addition to Interstrand Cross-Links. <i>Journal of the American Chemical Society</i> , 2009, 131, 13756-13766.	6.6	69
111	Observation of a dynamic equilibrium between DNA hairpin and duplex forms of covalent adducts of a minor groove binding agent. <i>Chemical Communications</i> , 2009, , 227-229.	2.2	13
112	Preliminary Cytotoxicity Screening of Some Medicinal Plants of Bangladesh. <i>Dhaka University Journal of Pharmaceutical Sciences</i> , 2008, 7, 47-52.	0.1	17
113	Secondary Metabolites from <i>Stereospermum chelonoides</i> . <i>Dhaka University Journal of Pharmaceutical Sciences</i> , 2007, 4, .	0.1	0
114	Stereochenols A and B, two quinones from <i>Stereospermum chelonoides</i> . <i>Phytochemistry</i> , 2006, 67, 2663-2665.	1.4	30
115	Binding of Betamethasone, Prednisolone and Theophylline to Bovine Serum Albumin: Plausible Explanations for Mode of Binding and Drug-drug Interactions. <i>Frontiers in Natural Product Chemistry</i> , 2005, 1, 77-88.	0.1	1
116	Cytotoxicity and antibacterial activity of extractives from <i>Wedelia calendulacea</i> . <i>FÃ-toterapÃ-Ãç</i> , 2004, 75, 355-359.	1.1	18
117	Antibacterial activity and cytotoxicity of extractives from <i>Ravenia spectabilis</i> . <i>FÃ-toterapÃ-Ãç</i> , 2004, 75, 510-513.	1.1	16
118	Evaluation of antitumor activity of some medicinal plants of Bangladesh by potato disk bioassay. <i>FÃ-toterapÃ-Ãç</i> , 2000, 71, 547-552.	1.1	21