## Rajshekhar Karpoormath

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Transition-metal-based layered double hydroxides tailored for energy conversion and storage. Journal of Materials Chemistry A, 2018, 6, 12-29.	5.2	170
2	An insight on synthetic and medicinal aspects of pyrazolo[1,5-a]pyrimidine scaffold. European Journal of Medicinal Chemistry, 2017, 126, 298-352.	2.6	127
3	Prostate cancer biomarkers detection using nanoparticles based electrochemical biosensors. Biosensors and Bioelectronics, 2019, 137, 213-221.	5.3	87
4	Synthesis, anticancer evaluation, and molecular docking studies of some novel 4,6-disubstituted pyrazolo[3,4-d]pyrimidines as cyclin-dependent kinase 2 (CDK2) inhibitors. Bioorganic Chemistry, 2018, 79, 46-59.	2.0	55
5	Marine Bromopyrrole Alkaloids: Synthesis and Diverse Medicinal Applications. Current Topics in Medicinal Chemistry, 2013, 14, 253-273.	1.0	51
6	Synthesis, pharmacological screening and in silico studies of new class of Diclofenac analogues as a promising anti-inflammatory agents. Bioorganic and Medicinal Chemistry, 2014, 22, 2855-2866.	1.4	50
7	Dehydrozingerone Inspired Styryl Hydrazine Thiazole Hybrids as Promising Class of Antimycobacterial Agents. ACS Medicinal Chemistry Letters, 2016, 7, 686-691.	1.3	49
8	Synthesis of novel 4-nitropyrrole-based semicarbazide and thiosemicarbazide hybrids with antimicrobial and anti-tubercular activity. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3079-3083.	1.0	48
9	Novel imidazo[2,1-b]-1,3,4-thiadiazoles as promising antifungal agents against clinical isolate of Cryptococcus neoformans. European Journal of Medicinal Chemistry, 2015, 95, 514-525.	2.6	48
10	Nanomaterial-based optical and electrochemical techniques for detection of methicillin-resistant Staphylococcus aureus: a review. Mikrochimica Acta, 2019, 186, 114.	2.5	48
11	Design, synthesis and evaluation of small molecule imidazo[2,1-b][1,3,4]thiadiazoles as inhibitors of transforming growth factor-Î <sup>2</sup> type-l receptor kinase (ALK5). European Journal of Medicinal Chemistry, 2015, 93, 599-613.	2.6	44
12	Current Perspective of Natural Alkaloid Carbazole and its Derivatives as Antitumor Agents. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 1049-1065.	0.9	42
13	Design and synthesis of novel carbazolo–thiazoles as potential anti-mycobacterial agents using a molecular hybridization approach. RSC Advances, 2014, 4, 62308-62320.	1.7	40
14	Synthesis of 4,6-disubstituted pyrazolo[3,4-d]pyrimidine analogues: Cyclin-dependent kinase 2 (CDK2) inhibition, molecular docking and anticancer evaluation. Journal of Molecular Structure, 2019, 1176, 538-551.	1.8	38
15	Electrochemically reduced graphene oxide/Poly-Glycine composite modified electrode for sensitive determination of I-dopa. Materials Science and Engineering C, 2017, 77, 394-404.	3.8	36
16	lleâ€Lysâ€Valâ€alaâ€Val (IKVAV) peptide for neuronal tissue engineering. Polymers for Advanced Technologies, 2019, 30, 4-12.	1.6	35
17	Highly selective electrochemical detection of ciprofloxacin using reduced graphene oxide/poly(phenol red) modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2020, 871, 114254.	1.9	33
18	An appraisal of anti-mycobacterial activity with structure-activity relationship of piperazine and its analogues: A review. European Journal of Medicinal Chemistry, 2021, 210, 112967.	2.6	32

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19	An appraisal on recent medicinal perspective of curcumin degradant: Dehydrozingerone (DZG). Bioorganic and Medicinal Chemistry, 2016, 24, 501-520.	1.4	31
20	An appraisal on synthetic and pharmaceutical perspectives of pyrazolo[4,3-d]pyrimidine scaffold. Bioorganic and Medicinal Chemistry, 2018, 26, 309-339.	1.4	31
21	Electrochemical sensitive determination of acetaminophen in pharmaceutical formulations at iron oxide/graphene composite modified electrode. Arabian Journal of Chemistry, 2020, 13, 4350-4357.	2.3	29
22	Design and synthesis of quinoline-pyrimidine inspired hybrids as potential plasmodial inhibitors. European Journal of Medicinal Chemistry, 2021, 217, 113330.	2.6	29
23	Similarities, variations, and evolution of cytochrome P450s in Streptomyces versus Mycobacterium. Scientific Reports, 2019, 9, 3962.	1.6	28
24	A Recent Perspective on Discovery and Development of Diverse Therapeutic Agents Inspired from Isatin Alkaloids. Current Topics in Medicinal Chemistry, 2016, 16, 1262-1289.	1.0	27
25	Synthesis and characterization of Ba0.5Co0.5Fe2O4 nanoparticle ferrites: application as electrochemical sensor for ciprofloxacin. Journal of Materials Science: Materials in Electronics, 2015, 26, 5097-5105.	1.1	26
26	Research progress in electroanalytical techniques for determination of antimalarial drugs in pharmaceutical and biological samples. RSC Advances, 2016, 6, 57580-57602.	1.7	26
27	Ligand- and structure-based <i>in silico</i> studies to identify kinesin spindle protein (KSP) inhibitors as potential anticancer agents. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3687-3704.	2.0	26
28	A highly dispersed multi-walled carbon nanotubes and poly(methyl orange) based electrochemical sensor for the determination of an anti-malarial drug: Amodiaquine. Materials Science and Engineering C, 2019, 97, 285-292.	3.8	26
29	Design and synthesis of VEGFR-2 tyrosine kinase inhibitors as potential anticancer agents by virtual based screening. RSC Advances, 2015, 5, 56724-56771.	1.7	24
30	A poly(acrylic acid)-modified copper-organic framework for electrochemical determination of vancomycin. Mikrochimica Acta, 2020, 187, 79.	2.5	24
31	A Versatile and Ultrasensitive Electrochemical Sensing Platform for Detection of Chlorpromazine Based on Nitrogen-Doped Carbon Dots/Cuprous Oxide Composite. Nanomaterials, 2020, 10, 1513.	1.9	24
32	A novel copper-based 3D porous nanocomposite for electrochemical detection and inactivation of pathogenic bacteria. Sensors and Actuators B: Chemical, 2020, 321, 128449.	4.0	24
33	Design and synthesis of pyrazolone-based compounds as potent blockers of SARS-CoV-2 viral entry into the host cells. Journal of Molecular Structure, 2021, 1241, 130665.	1.8	23
34	Pentacycloundecane derived hydroxy acid peptides: A new class of irreversible non-scissile ether bridged type isoster as potential HIV-1 wild type C-SA protease inhibitors. Bioorganic Chemistry, 2012, 40, 19-29.	2.0	22
35	In search of selective $11^{\hat{l}^2}$ -HSD type 1 inhibitors without nephrotoxicity: An approach to resolve the metabolic syndrome by virtual based screening. Arabian Journal of Chemistry, 2018, 11, 221-232.	2.3	22
36	Design and synthesis of novel thiadiazole-thiazolone hybrids as potential inhibitors of the human mitotic kinesin Eg5. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2930-2938.	1.0	22

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37	Design and synthesis of novel heterofused pyrimidine analogues as effective antimicrobial agents. Journal of Molecular Structure, 2019, 1183, 246-255.	1.8	22
38	One-pot synthesis of $\hat{l}^2$ -cyclodextrin modified silver nanoparticles for highly sensitive detection of ciprofloxacin. Journal of Pharmaceutical and Biomedical Analysis, 2021, 203, 114219.	1.4	22
39	Crystal structure of the Eg5 - K858 complex and implications for structure-based design of thiadiazole-containing inhibitors. European Journal of Medicinal Chemistry, 2018, 156, 641-651.	2.6	21
40	Enhanced electrochemical sensing of dopamine based on carboxylic acid functionalized multi-walled carbon nanotubes/poly(toluidine blue) composite. Synthetic Metals, 2018, 245, 87-95.	2.1	21
41	Corrosion resistant hydrophobic coating using modified conducting polyaniline. High Performance Polymers, 2018, 30, 181-191.	0.8	20
42	Electrochemical sensitive determination of isoprenaline at β-cyclodextrin functionalized graphene oxide and electrochemically generated acid yellow 9 polymer modified electrode. Journal of Molecular Liquids, 2017, 248, 953-962.	2.3	19
43	Comparative Analyses of Cytochrome P450s and Those Associated with Secondary Metabolism in Bacillus Species. International Journal of Molecular Sciences, 2018, 19, 3623.	1.8	19
44	Discovery of novel N-methyl carbazole tethered rhodanine derivatives as direct inhibitors of Mycobacterium tuberculosis InhA. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2338-2344.	1.0	19
45	NiO–ZrO <sub>2</sub> nanocomposite modified electrode for the sensitive and selective determination of efavirenz, an anti-HIV drug. RSC Advances, 2015, 5, 40057-40064.	1.7	18
46	Fabrication of highly sensitive gold nanourchins based electrochemical sensor for nanomolar determination of primaquine. Materials Science and Engineering C, 2017, 74, 27-35.	3.8	18
47	Synthesis, <i>In Vitro</i> Evaluation, and Molecular Docking Studies of Azetidinones and Thiazolidinones of 2â€Aminoâ€5â€cyclopropylâ€1,3,4â€thiadiazole as Antibacterial Agents. Archiv Der Pharmazie 2014, 347, 668-684.	,2.1	17
48	A simple in-situ flame synthesis of nanocomposite (MWCNTs-Fe2O3) for electrochemical sensing of proguanil in pharmaceutical formulation. Diamond and Related Materials, 2021, 111, 108178.	1.8	15
49	Polyaniline-cobalt oxide nanofibers for simultaneous electrochemical determination of antimalarial drugs: Primaquine and proguanil. Microchemical Journal, 2021, 160, 105709.	2.3	15
50	Cytochrome P450 Monooxygenase CYP139 Family Involved in the Synthesis of Secondary Metabolites in 824 Mycobacterial Species. International Journal of Molecular Sciences, 2019, 20, 2690.	1.8	13
51	Novel thiomorpholine tethered isatin hydrazones as potential inhibitors of resistant Mycobacterium tuberculosis. Bioorganic Chemistry, 2021, 115, 105133.	2.0	13
52	Lactate dehydrogenase and malate dehydrogenase: Potential antiparasitic targets for drug development studies. Bioorganic and Medicinal Chemistry, 2021, 50, 116458.	1.4	13
53	Recent Advances on the sâ€Triazine Scaffold with Emphasis on Synthesis, Structureâ€Activity and Pharmacological Aspects: A Concise Review. ChemistrySelect, 2021, 6, 1616-1660.	0.7	12
54	Synthetic and anti-cancer activity aspects of 1, 3, 4-thiadiazole containing bioactive molecules: A concise review. Journal of Sulfur Chemistry, 0, , 1-22.	1.0	12

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55	Copper atalyzed Self ondensation of Benzamide: Domino Reactions towards Quinazolinones. European Journal of Organic Chemistry, 2018, 2018, 5382-5388.	1.2	11
56	Recent Progress in Iodine atalysed Câ^'O/Câ^'N Bond Formation of 1,3â€Oxazoles: A Comprehensive Review. ChemistrySelect, 2021, 6, 754-787.	0.7	11
57	Lemon Juice: A Versatile Biocatalyst and Green Solvent in Organic Transformations. ChemistrySelect, 2022, 7, .	0.7	11
58	Novel synthetic organic compounds inspired from antifeedant marine alkaloids as potent bacterial biofilm inhibitors. Bioorganic Chemistry, 2015, 61, 66-73.	2.0	10
59	A Simple, Efficient and Ultrasensitive Gold Nanourchin Based Electrochemical Sensor for the Determination of an Antimalarial Drug: Mefloquine. Electroanalysis, 2017, 29, 2138-2146.	1.5	10
60	Polymeric microspheres: a delivery system for osteogenic differentiation. Polymers for Advanced Technologies, 2017, 28, 1595-1609.	1.6	10
61	Exploring MDRâ€TB Inhibitory Potential of 4â€Aminoquinazolines as <i>Mycobacterium tuberculosis N</i> â€Acetylglucosamineâ€1â€Phosphate Uridyltransferase (GlmU <sup>MTB</sup> ) Inhibitors. Chemistry and Biodiversity, 2020, 17, e2000237.	1.0	10
62	Epidermal Growth Factor Receptor (EGFR) Tyrosine Kinase Inhibitors from the Natural Origin: A Recent Perspective. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 988-1011.	0.9	9
63	Synthesis and Evaluation of Novel Marine Bromopyrrole Alkaloidâ€Based Derivatives as Potential Antidepressant Agents. Chemical Biology and Drug Design, 2014, 84, 593-602.	1.5	8
64	Synthesis and Biological Evaluation of Novel Carbazole Hybrids as Promising Antimicrobial Agents. Chemistry and Biodiversity, 2020, 17, e1900550.	1.0	8
65	Alkaloids with Anti-Onchocercal Activity from Voacanga africana Stapf (Apocynaceae): Identification and Molecular Modeling. Molecules, 2021, 26, 70.	1.7	8
66	HCl-mediated transamidation of unactivated formamides using aromatic amines in aqueous media. Synthetic Communications, 2021, 51, 3729-3739.	1.1	8
67	Development of niosomes for encapsulating captopril-quercetin prodrug to combat hypertension. International Journal of Pharmaceutics, 2021, 609, 121191.	2.6	8
68	Recent progress in electrochemical sensors for detection and quantification of malaria. Analytical Biochemistry, 2022, 643, 114592.	1.1	8
69	An Unprecedented Number of Cytochrome P450s Are Involved in Secondary Metabolism in Salinispora Species. Microorganisms, 2022, 10, 871.	1.6	8
70	Design, synthesis and QSAR studies of 2-amino benzo[d]thiazolyl substituted pyrazol-5-ones: novel class of promising antibacterial agents. Medicinal Chemistry Research, 2017, 26, 1969-1987.	1.1	7
71	Synthesis and pharmacological evaluation of marine bromopyrrole alkaloid-based hybrids with anti-inflammatory activity. Arabian Journal of Chemistry, 2017, 10, 458-464.	2.3	7
72	An Environmentally Benign, Catalystâ€Free Nâ^'C Bond Cleavage/Formation of Primary, Secondary, and Tertiary Unactivated Amides. European Journal of Organic Chemistry, 2021, 2021, 5627-5639.	1.2	7

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73	A systematic appraisal on catalytic synthesis of 1,3-oxazole derivatives: A mechanistic review on metal dependent synthesis. Synthetic Communications, 0, , 1-36.	1.1	7
74	Lifestyles Shape the Cytochrome P450 Repertoire of the Bacterial Phylum Proteobacteria. International Journal of Molecular Sciences, 2022, 23, 5821.	1.8	7
75	<i>exo</i> -8, <i>exo</i> -11-Divinylpentacyclo[5.4.0.0 <sup>2,6</sup> .0 <sup>3,10</sup> .0 <sup>5,6</sup> ]unde Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3977-o3977.	cane- <i>e 0.2</i>	ndo-8,<
76	A categorical review on electroanalytical determination of non-narcotic over-the-counter abused antitussive drugs. Talanta, 2015, 142, 157-163.	2.9	6
77	Structural insight of glitazone for hepato-toxicity: Resolving mystery by PASS. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1938-1946.	1.0	6
78	One-Pot, Multicomponent, Diastereoselective, Green Synthesis of 3,4-Dihydro-2 <i>H</i> -benzo[ <i>b</i> ][1,4]oxazine Analogues. Journal of Organic Chemistry, 2020, 85, 8221-8229.	1.7	6
79	Recent Advances in Chalcone-Based Anticancer Heterocycles: A Structural and Molecular Target Perspective. Current Medicinal Chemistry, 2021, 28, 6805-6845.	1.2	6
80	An Insight into Purine, Tyrosine and Tryptophan Derived Marine Antineoplastic Alkaloids. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 947-954.	0.9	6
81	Facile Synthesis of Amides through Transamidation with Iodine under Neat Conditions. ChemistrySelect, 2022, 7, .	0.7	6
82	<i>exo</i> -8, <i>exo</i> -11-Diallylpentacyclo[5.4.0.0 <sup>2,6</sup> .0 <sup>3,10</sup> .0 <sup>5,9</sup> ]undec Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4797-o4797.	cane- <i>er 0.2</i>	ndo-8, <i< td=""></i<>
83	Investigation of magnetic and electrochemical sensing properties of novel Ba1/3Mn1/3Co1/3Fe2O4 nanoparticles. New Journal of Chemistry, 2015, 39, 9596-9604.	1.4	5
84	Metal-free direct annulation of 2-aminophenols and 2-aminothiophenols with unactivated amides through transamidation: Access to polysubstituted benzoxazole and benzothiazole derivatives. Tetrahedron, 2022, 115, 132794.	1.0	5
85	Novel PCU cage diol peptides as potential targets against wild-type CSA HIV-1 protease: synthesis, biological screening and molecular modelling studies. Medicinal Chemistry Research, 2013, 22, 3918-3933.	1.1	4
86	Editorial (Thematic Issue: "Discovery and Development of New Anticancer Drugs Inspired from Natural) Tj ETQ	q8.90 rgE	3T <sub>4</sub> /Overlock
87	Novel series of phenylalanine analogs endowed with promising anti-inflammatory activity: synthesis, pharmacological evaluation, and computational insights. Medicinal Chemistry Research, 2015, 24, 1988-2004.	1.1	4
88	Structural based investigation of novel pyrazole-thiazole Hybrids as dual CDK-1 and CDK-2 inhibitors for cancer chemotherapy. Molecular Simulation, 2022, 48, 687-701.	0.9	4
89	Recent Literature Review on Coumarin Hybrids as Potential Anticancer Agents. Anti-Cancer Agents in Medicinal Chemistry, 2023, 23, 142-163.	0.9	4

90Synthesis and NMR elucidation of pentacycloundecane-derived hydroxy acid peptides as potential<br/>anti-HIV-1 agents. Structural Chemistry, 2013, 24, 1461-1471.1.03

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91	Synthesis of Novel Hybrids Inspired from Bromopyrrole Alkaloids Inhibiting <scp>MMP</scp> â€2 and â€12 as Antineoplastic Agents. Chemical Biology and Drug Design, 2015, 86, 210-222.	1.5	3
92	AgNO <sub>3</sub> Catalyzed Regioâ€6elective Synthesis of 3â€Alkyl/Arylâ€ideneâ€3,4â€dihydroâ€4â€tosylâ€2Hâ€1,4â€Benzoxazine: Novel Antiâ€Tubercular Scaffolds. Jour Heterocyclic Chemistry, 2016, 53, 1611-1616.	nal4of	3
93	N-Phenyl substituent controlled diastereoselective synthesis of β-lactam-isatin conjugates. Tetrahedron Letters, 2020, 61, 151602.	0.7	3
94	Development of novel GnRH and Tat <sup>48–60</sup> based luminescent probes with enhanced cellular uptake and bioimaging profile. Dalton Transactions, 2021, 50, 9215-9224.	1.6	3
95	DBU mediated one-pot synthesis of triazolo triazines <i>via</i> Dimroth type rearrangement. RSC Advances, 2022, 12, 2102-2106.	1.7	3
96	tert-ButylN-[(11-exo-benzyloxycarbonyl-8-oxopentacyclo[5.4.0.02,6.03,10.05,9]undecane-11-endo-yloxy)carbony Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2607-o2608.	lmethyl]ca	arbamate.
97	N,N′-[(8-endo,11-endo-Dihydroxypentacyclo[5.4.0.02,6.03,10.05,9]undecane-8,11-diyl)bis(methylenecarbonyl Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2537-o2538.	)]di-L-pher 0.2	nylalanine.
98	Design and Synthesis of Novel Antineoplastic Agents Inspired from Marine Bromopyrrole Alkaloids. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 548-554.	0.9	2
99	Discovery of oxazole-dehydrozingerone based hybrid molecules as potential anti-tubercular agents and their docking for Mtb DNA gyrase. Results in Chemistry, 2022, 4, 100374.	0.9	2
100	2â€Aminobenzamideâ€Based Factor Xa Inhibitors with Novel Mono―and Biâ€Aryls as S4 Binding Elements. ChemistrySelect, 2019, 4, 802-809.	0.7	1
101	Synthesis, crystal structure, spectroscopic and photophysical studies of novel fluorinated quinazoline derivatives. Journal of Molecular Structure, 2021, 1231, 129951.	1.8	1
102	Exploration of alternate therapeutic remedies in Ebola virus disease: the case of reported antiviral phytochemical derived from the leaves Spondias Mombin Linn. Advances in Traditional Medicine, 0, , 1.	1.0	1
103	In vitro -In vivo- In silico Simulation of Experimental Design Based Optimized Curcumin Loaded Multiparticulates System. Current Pharmaceutical Design, 2018, 24, 3576-3586.	0.9	1
104	Conglomeratin: a new antibacterial flavonol derivative from <i>Macaranga conglomerata</i> Brenan (Euphorbiaceae). Natural Product Research, 2022, , 1-9.	1.0	1
105	Development of pyrimidine-cinnamamide hybrids as potential anticancer agents: A rational design approach. Journal of Molecular Structure, 2022, 1267, 133594.	1.8	1
106	endo-11-(Dibenzylamino)tetracyclo[5.4.0.03,10.05,9]undecane-8-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o619-o619.	0.2	0
107	Benzyl 5-hydroxy-4-oxapentacyclo[5.4.1.02,6.03,10.08,11]dodecane-3-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, 0877-0877.	0.2	0
108	A New Class of Linezolidâ€Based Molecules as Potential Antimicrobial and Antitubercular Agents: A Rational Approach. ChemistrySelect, 2021, 6, 3065-3074.	0.7	0

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109	Development of a DHA-Losartan hybrid as a potent inhibitor of multiple pathway-induced platelet aggregation. Journal of Biomolecular Structure and Dynamics, 2022, 40, 13889-13900.	2.0	0
110	A metal-free approach for in situ regioselective synthesis of isoxazoles via 1,3 dipolar cycloaddition reaction of nitrile oxide with propargyl bromide. Chemical Papers, 0, , 1.	1.0	0