

**Selected Research Publications- Prof. Dr. Kamaljit Singh**

<b>Sr. No</b>	<b>Title of the paper</b>	<b>Authors</b>	<b>Name of the Journal &amp; (Impact factor)</b>	<b>Year</b>	<b>Volume</b>	<b>Pages</b>
1.	An efficient synthesis of bis(heterocycl)methanes	Kamaljit Singh, Shivali Sharma and Amit Sharma	Synth. Commun. (0.961)	2011	--	accepted
2.	Facile transformation of Biginelli pyrimidin-2(1 <i>H</i> )-ones to pyrimidines. <i>In vitro</i> evaluation as inhibitors of <i>Mycobacterium tuberculosis</i> and modulators of cytostatic activity	Kamaljit Singh, Kawaljit Singh, Baojie Wan, Scott Franzblau, Kelly Chibale and Jan Balzarini	Eur. J. Med. Chem. (3.269)	2011	46	accepted
3.	Removal of synthetic textile dyes from wastewaters: A critical review on current treatment technologies	Kamaljit Singh and Sucharita Arora	Critical Rev. Environ. Sci. & Technol. (7.409)	2011	41(9)	807-878
4.	A fluoride selective dipyrromethane-TCNQ colorimetric sensor based on charge transfer	Paramjit Kaur, Sandeep Kaur and Kamaljit Singh	Talanta	2011	84	947-951
5.	Biological decolorization of industrial dyes by <i>Candida tropicalis</i> , <i>Bacillus firmus</i>	Sucharita Arora, Harvinder Singh Saini and Kamaljit Singh	Water Sci. & Tech. (1.094)	2011	63(4)	761-768
6.	Selective colorimetric sensing of Cu <sup>2+</sup> using triazolyl monoazo derivative	Paramjit Kaur, Divya Sareen and Kamaljit Singh	Talanta (3.29)	2011	83	1695-1700
7.	New Sulphur Bridged Neutral Annulenes. Structure, Physical Properties and Applications in Organic Field-Effect Transistors	Kamaljit Singh, Amit Sharma, Jing Zhang, Wei Xu and Daoben Zhu	Chem. Commun. (5.59)	2011	47(3)	905-907
8.	Novel unsymmetrical charge-transfer compound of N-methylpyrrole with TCNQ - A highly selective Hg <sup>2+</sup> dosimeter. Synthesis, sensing and mechanistic rationale	Paramjit Kaur, Sandeep Kaur, Yoganjaneyulu Kasetti, Prasad. V. Bharatam, Kamaljit Singh	Talanta (3.29)	2010	83	644-650
9.	Regioselective addition reactions at C-2 of 3,4-dihydropyrimidinones. Synthesis and evaluation of	Kamaljit Singh, Divya Arora, Jan Balzarini	Tetrahedron (3.219)	2010	66	8175-8180

	multifunctionalized tetrahydropyrimidines					
10.	Highly regioselective lithiation of inter-ring carbon of bis(thien-2yl)methane: A general <i>meso</i> -elaboration protocol	Kamaljit Singh and Amit Sharma	Tetrahedron (3.219)	2010	66	3682-3686
11.	Structure diversification of heterocycles through deprotonative lithiation-substitution reactions.	Kamaljit Singh, Amit Sharma and Kawaljit Singh	<i>SciTopics</i> . (by invitation)	2010	July 13	--
12.	N1,N3-Diacyl-3,4-Dihydropyrimidin-2(1 <i>H</i> )-ones. Neutral Acyl Group Transfer Reagents	Kamaljit Singh and Kawaljit Singh	Tetrahedron (3.219)	2009	65	10395-10399
13.	Colorimetric detection of cyanide in water using a highly selective Cu <sup>2+</sup> chemosensor	Paramjit Kaur, Sandeep Kaur and Kamaljit Singh	Inorg. Chem. Commun. (2.029)	2009	12	978-981
14.	An efficacious protocol for C-4 substituted 3,4-dihydropyrimidinones. Synthesis and calcium channel binding studies	Kamaljit Singh, Divya Arora, Danielle Falkowski, Qingxin Liu and Robert S. Moreland	Eur. J. Org. Chem. (3.096)	2009	--	3258-3264
15.	Chemical resolution of inherently racemic dihydropyrimidinones via a site selective functionalization of Biginelli compounds with chiral electrophiles. A case study	Kamaljit Singh and Sukhdeep Singh	Tetrahedron (3.219)	2009	65	4106-4112
16.	Magnesium/Methanol: An effective reducing agent for chemoselective reduction of pyrimidine-2(1 <i>H</i> )-ones	Kamaljit Singh and Kawaljit Singh	Tetrahedron Lett. (2.615)	2009	50	2219-2221
17.	N1-Alkylated 3,4-dihydropyrimidine-2(1 <i>H</i> )-ones: Convenient one-pot selective synthesis and evaluation of their calcium channel blocking activity	Kamaljit Singh, Divya Arora, Elizabeth Poremsky, Jazmyne Lowery and Robert S. Moreland	Eur. J. Med. Chem. (3.269)	2009	44	1997-2001
18.	A triarylmethane dye selectively detects cyanide, in solution and when dyed on textile substrate	Paramjit Kaur, Divya Sarin, Sandeep Kaur and Kamaljit Singh	Inorg. Chem. Commun. (2.029)	2009	12	272-275
19.	Genesis of dihydropyrimidinone calcium channel blockers: Recent progress in structure activity relationships and other effects	Kamaljit Singh, Divya Arora, Kawaljit Singh and Sukhdeep Singh	Mini Rev. Med. Chem. (2.971)	2009	9	95-106
20.	An efficacious protocol for the oxidation of 3,4-dihydropyrimidin-2(1 <i>H</i> )-ones using pyridinium chlorochromate as a catalyst	Kamaljit Singh and Kawaljit Singh	Aust. J. Chem. (1.919)	2008	61	910-913

21.	Unprecedented single-pot protocol for the synthesis of N1, C6-linked bicyclic 3,4-dihydropyrimidinones via lithiation of Biginelli compounds	Kamaljit Singh and Sukhdeep Singh	Tetrahedron (3.219)	2008	64	11718-11723
22.	Selective Lithiation of Bis(furan-2-yl)methane: An Efficient Protocol for Novel meso-Functionalised Synthones	Kamaljit Singh and Amit Sharma	Tetrahedron Lett. (2.660)	2008	49	6234-6236
23.	Highly selective colorimetric sensor for Zn <sup>2+</sup> based on hetarylazo derivative	Paramjit Kaur, Sandeep Kaur, Aman Mahajan and Kamaljit Singh	Inorg. Chem. Commun. (2.029)	2008	11	626-629
24.	A selective and sensitive "Naked Eye" anion detector based on an imine- $\pi$ -TCNQ assembly	Paramjit Kaur, Sandeep Kaur and Kamaljit Singh	Tetrahedron Lett. (2.660)	2007	48	7191-7193
25.	Synthesis of meso-aryl substituted porphyrins. Simple and high yielding modification of the Adler procedure	Kamaljit Singh, Amit Sharma, Sonia Behal and Paramjit Kaur	Letts. Org. Chem. (0.774)	2007	4	374-377
26.	Highly regio- and chemoselective addition of carbon nucleophiles to pyrimidinones. A new route to C4-elaborated Biginelli compounds	Kamaljit Singh, Divya Arora and Sukhdeep Singh	Tetrahedron Lett. (2.660)	2007	48	1349-1352
27.	An unprecedented regioselective lithiation of dipyrromethanes. Synthesis of meso-functionalised dipyrromethanes	Kamaljit Singh and Amit Sharma	Tetrahedron Lett. (2.660)	2007	48	227-229
28.	Single crystal x-ray structure determination of some heterocyclic monoazo disperse dyes	Kamaljit Singh, Aman Mahajan and ward T. Robinson	Dyes & Pigments (2.855)	2007	74	95-105
29.	Decolorisation optimization of a monoazo disperse dye with Bacillus firmus. Identification of degradation products.	Sucharita Arora, Harvinder Singh Saini and Kamaljit Singh	Color. Technol.	2007	123	184-190
30.	Mild and practical method for regioselective synthesis of N-acylated 3,4-dihydropyrimidin-2-ones. New acyl transfer reagents	Kamaljit Singh and Sukhdeep Singh	Tetrahedron Lett. (2.660)	2006	47	8143-8146
31.	Dowex-promoted general synthesis of N,N'-	Kamaljit Singh, Divya	Tetrahedron Lett.	2006	47	4205-4207

	disubstituted-4-aryl-3,4-dihydropyrimidinones using a solvent-free Biginelli condensation protocol	Arora and Sukhdeep Singh	(2.660)			
32.	A solvent – free sonochemical preparation of Biginelli 3,4-dihydropyrimidinones	Kamaljit Singh, Sukhdeep Singh, Aman Mahajan, and Paramjit Kaur	Letts. Org. Chem. (0.774)	2006	3	201-203
33.	Coenzyme 5,10-methylene and methenyltetrahydrofolate models in organic synthesis	Kamaljit Singh and Harjit Singh	Advances in Heterocyclic Chemistry (Chapter 3)	2006	91	163-192
34.	Metalation of Biginelli compounds. A general unprecedented route to C-6 functionalised 4-aryl-3,4-dihydropyrimidinones	Kamaljit Singh, Sukhdeep Singh and Aman Mahajan	J. Org. Chem. (4.219)	2005	70	6114-6117
35.	Efficient and versatile single pot approach to dipyrromethanes and bis(heterocyclyl)methanes	Kamaljit Singh, Maninder Singh Hundal and Sonia Behal	Tetrahedron (3.219)	2005	61	6614-6622
36.	A simple and versatile alternative approach to dipyrromethanes and tetra-meso-aryl porphyrins	Kamaljit Singh, Sonia Behal and Prasant K. Deb	Synthetic Commun. (0.961)	2005	35	929-934
37.	Decolourization of a monoazo disperse dye with <i>Candida tropicalis</i> .	Sucharita Arora, Harvinder Singh Saini and Kamaljit Singh	Color. Technol.	2005	121	298-303