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The development of an environmentally benign synthesis of sildenafil citrate (Viagra(T)) and its assessment by Green Chemistry metrics

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#	Paper	IF	Citations
149	Framework for evaluating the "greenness" of chemical processes: case studies for a novel VOC recovery technology. 2004 , 38, 5815-23		37
148	Promoting sustainability through green chemistry. 2005 , 44, 237-243		70
147	An eco-efficient pilot plant scale synthesis of two 5-substituted-6,7-dimethoxy-1-H-quinazoline-2,4-diones. <i>Green Chemistry</i> , 2005 , 7, 586	10	18
146	Unification of Reaction Metrics for Green Chemistry: Applications to Reaction Analysis. <i>Organic Process Research and Development</i> , 2005 , 9, 149-163	3.9	162
145	One-pot multi-step synthesis: a challenge spawning innovation. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2899-906	3.9	127
144	Critical assessment of pharmaceutical processes--A rationale for changing the synthetic route. <i>Chemical Reviews</i> , 2006 , 106, 3002-27	68.1	150
143	On Using Tree Analysis to Quantify the Material, Input Energy, and Cost Throughput Efficiencies of Simple and Complex Synthesis Plans and Networks: Towards a Blueprint for Quantitative Total Synthesis and Green Chemistry. <i>Organic Process Research and Development</i> , 2006 , 10, 212-240	3.9	43
142	. 2006 ,		33
141	Sustainability Performance Indicators. 2006 , 39-53		4
140	EcoScale, a semi-quantitative tool to select an organic preparation based on economical and ecological parameters. 2006 , 2, 3		236
139	A method to characterize the greenness of solvents used in pharmaceutical manufacture. 2007 , 42, 1595-605		55
138	Introduction. 2007 , 1-26		3
137	Industrial Examples. 2007 , 245-296		7
136	Key green chemistry research areas— perspective from pharmaceutical manufacturers. <i>Green Chemistry</i> , 2007 , 9, 411-420	10	1178
135	Green chemistry: the emergence of a transformative framework. <i>Green Chemistry Letters and Reviews</i> , 2007 , 1, 9-24	4.7	69
134	The E Factor: fifteen years on. <i>Green Chemistry</i> , 2007 , 9, 1273	10	1136
133	Greener approaches to organic synthesis using microreactor technology. <i>Chemical Reviews</i> , 2007 , 107, 2300-18	68.1	834

132	Green chemistry tools to influence a medicinal chemistry and research chemistry based organisation. <i>Green Chemistry</i> , 2008 , 10, 31-36	10	765
131	Reactions In Non-Conventional Media For Sustainable Organic Synthesis. 2008 , 1-28		3
130	A new rationale of reaction metrics for green chemistry. Mathematical expression of the environmental impact factor of chemical processes. <i>Green Chemistry</i> , 2008 , 10, 225-231	10	93
129	Solvent-free heterocyclic synthesis. <i>Chemical Reviews</i> , 2009 , 109, 4140-82	68.1	527
128	Microwave-assisted preparation of amides using a stable and reusable mesoporous carbonaceous solid acid. <i>Green Chemistry</i> , 2009 , 11, 459	10	40
127	Greener pharmaceuticals. 2009 , 1, 409-13		1
126	The development of an environmentally benign sulfide oxidation procedure and its assessment by green chemistry metrics. <i>Green Chemistry</i> , 2009 , 11, 223-228	10	37
125	Green process chemistry in the pharmaceutical industry. <i>Green Chemistry Letters and Reviews</i> , 2009 , 2, 193-211	4.7	122
124	Introduction to Green Chemistry, Organic Synthesis and Pharmaceuticals. 1-20		14
123	References. 2010 , 587-673		
122	Green and Sustainable Pharmacy. 2010 ,		20
121	Water as a Green Solvent for Pharmaceutical Applications. 2010 , 363		
120	Solvent Use and Waste Issues. 49-82		19
119	A seawater-based biorefining strategy for fermentative production and chemical transformations of succinic acid. 2011 , 4, 1471		52
118	Chapter 6: The Importance of Green Chemistry in Process Research & Development. <i>RSC Drug Discovery Series</i> , 117-137	0.6	8
117	Metabolic engineering is key to a sustainable chemical industry. 2011 , 28, 1406-25		22
116	Green chemistry: what is the way forward?. 2011 , 21, 235-238		16
115	Solvent-free protocol for amide bond formation via trapping of nascent phosphazenes with carboxylic acids. <i>Tetrahedron Letters</i> , 2011 , 52, 2830-2833	2	23

114	Bulk drugs or active pharmaceutical ingredients. 2011 , 69-109		1
113	Route Selection. 2012 , 47-87		
112	Efficient amide formation from arylamines and esters promoted by AlCl ₃ /Et ₃ N: an experimental and computational investigation. 2012 , 38, 1961-1968		4
111	The use of environmental metrics to evaluate green chemistry improvements to the synthesis of (S,S)-reboxetine succinate. <i>Green Chemistry</i> , 2012 , 14, 123-129	10	16
110	Green chemistry teaching in higher education: a review of effective practices. 2012 , 13, 69-79		67
109	Solvent-Free Synthesis. 2012 , 297-323		5
108	Integration of LCA and Life-Cycle Thinking within the Themes of Sustainable Chemistry & Engineering. 2012 , 369-389		4
107	Continuous reactions in supercritical carbon dioxide: problems, solutions and possible ways forward. 2012 , 41, 1428-36		157
106	The catalytic activity of titania nanostructures in the synthesis of amides under solvent-free conditions. <i>New Journal of Chemistry</i> , 2012 , 36, 1312	3.6	26
105	Modeling and predicting aquatic aerobic biodegradation – a review from a user's perspective. <i>Green Chemistry</i> , 2012 , 14, 875	10	71
104	Drugs. 2012 , 251		1
103	The importance of green chemistry in process research and development. 2012 , 41, 1452-61		424
102	Mechanochemistry: opportunities for new and cleaner synthesis. 2012 , 41, 413-47		1832
101	Incorporating Green Chemistry Concepts into Mobile Chemistry Applications and Their Potential Uses. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 8-13	8.3	35
100	A new generation of aprotic yet Brønsted acidic imidazolium salts: effect of ester/amide groups in the C-2, C-4 and C-5 on antimicrobial toxicity and biodegradation. <i>Green Chemistry</i> , 2013 , 15, 2747	10	44
99	Evaluation of the synthesis of 1-(pentafluorophenyl)-4,5-dihydro-1H-pyrazoles using green metrics. <i>Monatshefte für Chemie</i> , 2013 , 144, 1043-1050	1.4	7
98	Seven Important Elements for an Effective Green Chemistry Program: An IQ Consortium Perspective. <i>Organic Process Research and Development</i> , 2013 , 17, 1099-1109	3.9	37
97	En route to full implementation: driving the green chemistry agenda in the pharmaceutical industry. <i>Green Chemistry</i> , 2013 , 15, 3105	10	26

96	Synthesis and new application of green and recyclable cyclic poly(L-lactide)-clay hybrid. 2013 , 51, 4167-4174	12
95	. 2014 ,	4
94	Multicomponent reactions: advanced tools for sustainable organic synthesis. <i>Green Chemistry</i> , 2014 , 16, 2958-2975	10 766
93	15 years of Green Chemistry. <i>Green Chemistry</i> , 2014 , 16, 18-23	10 41
92	Catalyst retention in continuous flow with supercritical carbon dioxide. 2014 , 83, 26-32	16
91	Comparison on physical property, dissolution and disintegration of four launched orally disintegration film (ODF) products for erectile dysfunction. 2014 , 44, 297-307	
90	A Comparative Environmental Assessment for the Synthesis of 1,3-Oxazin-2-one by Metrics: Greenness Evaluation and Blind Spots. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1056-1062	8.3 21
89	Green Chemistry Metrics with Special Reference to Green Analytical Chemistry. 2015 , 20, 10928-46	193
88	References. 2015 , 199-213	
87	Solvents and sustainable chemistry. 2015 , 471, 20150502	163
86	Decomposition of benzoylthioureas into benzamides and thiobenzamides under solvent-free conditions using iodine/Alumina as the catalyst and its mechanistic study by density functional theory. <i>New Journal of Chemistry</i> , 2015 , 39, 2240-2247	3.6 3
85	Implications of NPW to Green and Cost Efficient Processing. 2015 , 191-240	
84	Green chemistry approaches as sustainable alternatives to conventional strategies in the pharmaceutical industry. 2015 , 5, 26686-26705	31
83	Psychiatric Pharmaceuticals as Emerging Contaminants in Wastewater. <i>Springer Briefs in Molecular Science</i> , 2015 ,	0.6 15
82	The E Factor and Process Mass Intensity. <i>Springer Briefs in Molecular Science</i> , 2015 , 45-67	0.6 2
81	Life cycle inventory improvement in the pharmaceutical sector: assessment of the sustainability combining PMI and LCA tools. <i>Green Chemistry</i> , 2015 , 17, 3390-3400	10 73
80	Selected Qualitative Green Metrics. <i>Springer Briefs in Molecular Science</i> , 2015 , 69-79	0.6 3
79	Applying green chemistry to the photochemical route to artemisinin. 2015 , 7, 489-95	115

78	Can pollutant release and transfer registers (PRTRs) be used to assess implementation and effectiveness of green chemistry practices? A case study involving the Toxics Release Inventory (TRI) and pharmaceutical manufacturers. <i>Green Chemistry</i> , 2015 , 17, 2679-2692	10	14
77	The Twelve Principles of CO ₂ CHEMISTRY. 2015 , 183, 9-17		75
76	Overcoming barriers to green chemistry in the pharmaceutical industry [The Green Aspiration Level] concept. <i>Green Chemistry</i> , 2015 , 17, 752-768	10	208
75	Green Chemistry Metrics. <i>Springer Briefs in Molecular Science</i> , 2015 ,	0.6	10
74	Front matter. 2016 , xxix-xlvii		
73	Tools and techniques for solvent selection: green solvent selection guides. 2016 , 4,		510
72	Circular economy design considerations for research and process development in the chemical sciences. <i>Green Chemistry</i> , 2016 , 18, 3914-3934	10	190
71	Applying green processes and techniques to simplify reaction work-ups. 2016 , 72, 7375-7391		19
70	Ruthenium-Catalyzed Methylation of Amines with Paraformaldehyde in Water under Mild Conditions. <i>ChemSusChem</i> , 2016 , 9, 2343-7	8.3	16
69	Formation of amides, their intramolecular reactions for the synthesis of N-heterocycles, and preparation of a marketed drug, sildenafil: a comprehensive coverage. 2016 , 52, 10245-8		44
68	Life Cycle Assessment Based Environmental Performance Comparison of Batch and Continuous Processing: A Case of 4-d-Erythronolactone Synthesis. <i>Organic Process Research and Development</i> , 2016 , 20, 1937-1948	3.9	25
67	Mobile Apps for Green Chemistry. 2016 , 1-9		1
66	A greener procedure for the synthesis of [Bu ₄ N]2-cis-[Ru(4-carboxy-4'-carboxylate-2,2'-bipyridine) ₂ (NCS) ₂] (N719), a benchmark dye for DSSC applications. 2016 , 6, 55768-55777		2
65	Drugs for Treatment of Erectile Dysfunction. 2016 , 783-800		
64	Isolation and characterization of a tadalafil analogue, N-cyclopentyl nortadalafil in health supplement. 2016 , 118, 235-241		8
63	Life cycle assessment of multi-step rufinamide synthesis [From isolated reactions in batch to continuous microreactor networks. <i>Green Chemistry</i> , 2016 , 18, 1096-1116	10	56
62	Challenges and recommendations for environmental sustainability assessments of pharmaceutical products in the healthcare sector. <i>Green Chemistry</i> , 2017 , 19, 3493-3509	10	22
61	Transition Metal-free Single Step Approach for Arylated Pyrazolopyrimidinones and Quinazolinones Using Benzylamines/Benzylalcohols/Benzaldehydes. <i>ChemistrySelect</i> , 2017 , 2, 4963-4968 ^{1.8}		13

60	Evolution and adoption of sustainable practices in the pharmaceutical industry: An overview with an Indian perspective. 2017 , 168, 1358-1369		22
59	Green chemistry: Analytical and chromatography. 2017 , 40, 839-852		33
58	The E factor 25 years on: the rise of green chemistry and sustainability. <i>Green Chemistry</i> , 2017 , 19, 18-43	10	611
57	Assessment of Sustainability Indicators for Biodiesel Production. 2017 , 7, 869		20
56	Green Chemistry Metrics. 2018 , 1-19		3
55	Green and Sustainable Solvents in Chemical Processes. <i>Chemical Reviews</i> , 2018 , 118, 747-800	68.1	794
54	Green Chemistry Metrics. 2018 , 1-28		4
53	UN sustainable development goals: How can sustainable/green chemistry contribute? By doing things differently. 2018 , 13, 146-149		21
52	4-Formyl-Pyrazole-3-Carboxylate: A Useful Aldo-X Bifunctional Precursor for the Syntheses of Pyrazole-fused/Substituted Frameworks. <i>Journal of Heterocyclic Chemistry</i> , 2018 , 55, 373-390	1.9	15
51	Metrics of Green Chemistry and Sustainability: Past, Present, and Future. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 32-48	8.3	375
50	Synthesis and Characterization of Selective Chemosensor for Copper and Nickel ions. <i>Materials Today: Proceedings</i> , 2018 , 5, 16782-16789	1.4	1
49	Benchmarking green chemistry adoption by the Indian pharmaceutical supply chain. <i>Green Chemistry Letters and Reviews</i> , 2018 , 11, 439-456	4.7	10
48	An eco-friendly and alternative method of forced degradation of fluoroquinolone drugs by microwave irradiation: a new application for analytical eco-scale. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2018 , 52, 162-181	1.4	4
47	An Efficient Synthesis of Pyrazolyl-1,2,3-thiadiazoles via Hurd-Mori Reaction. <i>Journal of Heterocyclic Chemistry</i> , 2019 , 56, 2163-2169	1.9	2
46	Calcium-Based Sustainable Chemical Technologies for Total Carbon Recycling. <i>ChemSusChem</i> , 2019 , 12, 1483-1516	8.3	51
45	Visible light photoredox catalysed amidation of carboxylic acids with amines. <i>Tetrahedron Letters</i> , 2019 , 60, 40-43	2	30
44	Comparing Industrial Amination Reactions in a Combined Class and Laboratory Green Chemistry Assignment. <i>Journal of Chemical Education</i> , 2019 , 96, 93-99	2.4	12
43	Reducing aquatic micropollutants - Increasing the focus on input prevention and integrated emission management. <i>Science of the Total Environment</i> , 2019 , 652, 836-850	10.2	63

42	Iron- or Zinc-Mediated Synthetic Approach to Enantiopure Dihydroquinoxalinones. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 1273-1280	3.2	6
41	Exploration of pyrazole based aldo-x bifunctional building blocks for the synthesis of pyrazole annulated molecular architectures. <i>Journal of Heterocyclic Chemistry</i> , 2020 , 57, 3735-3762	1.9	1
40	Solvent-Controlled Hydrogenation of 2-Hydroxychalcones: A Simple Solution to the Total Synthesis of Bussealins. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 5422-5431	5.6	5
39	Facile Ultrasound-Based Synthesis, SC-XRD, DFT Exploration of the Substituted Acyl-Hydrazones: An Experimental and Theoretical Slant towards Supramolecular Chemistry. <i>ChemistrySelect</i> , 2020 , 5, 14844-14856	1.8	17
38	Mechanochemical and Mechanoenzymatic Synthesis of Pharmacologically Active Compounds: A Green Perspective. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8881-8893	8.3	55
37	A Glimpse into Green Chemistry Practices in the Pharmaceutical Industry. <i>ChemSusChem</i> , 2020 , 13, 2859-2875	2.75	28
36	Green synthesis and antibacterial activity of chalcogenoesters. <i>Monatshefte für Chemie</i> , 2020 , 151, 377-383	3.4	1
35	Efficient and Practical Synthesis of Sulfonamides Utilizing SO ₂ Gas Generated On Demand. <i>Organic Process Research and Development</i> , 2020 , 24, 546-554	3.9	6
34	Green Approaches to Synthesize Organic Compounds and Drugs. <i>Nanotechnology in the Life Sciences</i> , 2020 , 191-222	1.1	1
33	Environmentally Benign Organic Synthesis. <i>Nanotechnology in the Life Sciences</i> , 2020 , 125-144	1.1	1
32	Improved, gram-scale synthesis of sildenafil in water using arylacetic acid as the acyl source in the pyrazolo[4,3-d]pyrimidin-7-one ring formation. <i>New Journal of Chemistry</i> , 2021 , 45, 2643-2648	3.6	0
31	Possible competitive modes of decarboxylation in the annulation reactions of ortho-substituted anilines and arylglyoxylates. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 845-853	3.9	6
30	Biosolvents as green solvents in the pharmaceutical industry. 2021 , 105-149		1
29	Sildenafil 4.0-Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	5
28	Quantitative Sustainability Assessment of Flow Chemistry From Simple Metrics to Holistic Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9508-9540	8.3	9
27	Efficient Synthesis of Quinazolines from Aryl Imidates and N-Alkoxyamide by Ir(III)-Catalyzed C-H Amidation/Cyclization. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 4144-4147	3.2	0
26	Pyrazolopyrimidines as anticancer agents: A review on structural and target-based approaches. <i>European Journal of Medicinal Chemistry</i> , 2021 , 225, 113781	6.8	3
25	Synthesis of new pyrazoles, oxadiazoles, triazoles, pyrrolotriazines, and pyrrolotriazepines as potential cytotoxic agents. <i>Journal of Heterocyclic Chemistry</i> , 2021 , 58, 805-821	1.9	6

24	LCA Integration Within Sustainability Metrics for Chemical Companies. 2020 , 53-73		3
23	Green(er) Pharmacy. 2010 , 37-59		1
22	Chapter 9:The Need for a Green Electronic Lab Notebook. <i>RSC Drug Discovery Series</i> , 2015 , 185-211	0.6	1
21	ECO-FRIENDLY PRODUCTS. 2013 , 43-86		1
20	β-Keto Acids as Triggers and Partners for the Synthesis of Quinazolinones, Quinoxalinones, Benzooxazinones, and Benzothiazoles in Water. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14866-14882	4.2	1
19	Alternative Solvents and Recycle of the Catalyst. <i>Springer Briefs in Molecular Science</i> , 2011 , 67-116	0.6	
18	Chapter 7:Applying Green Chemistry Principles in Biologics Drug Development. <i>RSC Drug Discovery Series</i> , 2015 , 151-172	0.6	1
17	Green Pharmaceuticals. <i>Springer Briefs in Molecular Science</i> , 2015 , 87-96	0.6	
16	Green Chemistry : Challenges and Opportunities. <i>International Journal of Scientific Research in Science and Technology</i> , 2020 , 314-320	0.1	
15	Taking the Green Road Towards Pharmaceutical Manufacturing. <i>Synthesis</i> ,	2.9	0
14	Green chemistry: Chemistry working for sustainability. 2022 , 41-54		1
13	Adoption of green methodology in industry for the synthesis of Sildenafil citrate & Celecoxib: A case study. <i>Materials Today: Proceedings</i> , 2022 ,	1.4	
12	Diversity in Heterocycle Synthesis Using β-aminocarboxylic Acids: Decarboxylation Dichotomy.. <i>Journal of Organic Chemistry</i> , 2022 ,	4.2	0
11	Green Chemistry in the Synthesis of Pharmaceuticals.. <i>Chemical Reviews</i> , 2021 ,	68.1	22
10	Green Analytical Chemistry Metrics and Life-Cycle Assessment Approach to Analytical Method Development. 2022 , 29-99		0
9	Green Chemistry: Introduction to the Basic Principles. 2022 , 1-36		0
8	l-Asparagineβ-EDTAβ-mide silica-coated MNPs: a highly efficient and nano-ordered multifunctional coreβ-hell organocatalyst for green synthesis of 3,4-dihydropyrimidin-2(1H)-one compounds. 2022 , 12, 21742-21759		1
7	Biocatalysis, solvents, and green metrics in sustainable chemistry. 2022 , 1-22		1

- 6 Production of Hydrochars from Lignocellulosic Biomass with and without Boric Acid. 0
- 5 Operationally simple, scalable synthesis of aryloxy propanolamines using glycerol as a green promoting media: Practical eco-friendly access to propranolol and atenolol. **2022**, 30, 100860 1
- 4 Recent Advances on Direct Functionalization of Indoles in Aqueous Media. **2023**, 23, 0
- 3 GreenMedChem: the challenge in the next decade toward eco-friendly compounds and processes in drug design. **2023**, 25, 2109-2169 0
- 2 Efforts to Replace Methylene Chloride in Pharmaceutical Process Chemistry. **2023**, 407, 0
- 1 An efficient metal-free and catalyst-free C5/C10 bond-formation strategy: synthesis of pyrazole-conjugated thioamides and amides. 19, 231-244 0