Vamshi Krishna Rapalli

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5585940/publications.pdf

Version: 2024-02-01

95 papers	3,406 citations	159358 30 h-index	182168 51 g-index
95 all docs	95 docs citations	95 times ranked	3034 citing authors

#	Article	IF	Citations
1	Microneedles: A smart approach and increasing potential for transdermal drug delivery system. Biomedicine and Pharmacotherapy, 2019, 109, 1249-1258.	2.5	651
2	Multifunctional nanocrystals for cancer therapy: a potential nanocarrier. , 2019, , 91-116.		196
3	Nanocarriers for ocular drug delivery: current status and translational opportunity. RSC Advances, 2020, 10, 27835-27855.	1.7	142
4	Curcumin loaded nanostructured lipid carriers for enhanced skin retained topical delivery: optimization, scale-up, in-vitro characterization and assessment of ex-vivo skin deposition. European Journal of Pharmaceutical Sciences, 2020, 152, 105438.	1.9	102
5	Increasing complexity and interactions of oxidative stress in chronic respiratory diseases: An emerging need for novel drug delivery systems. Chemico-Biological Interactions, 2019, 299, 168-178.	1.7	96
6	The potential of siRNA based drug delivery in respiratory disorders: Recent advances and progress. Drug Development Research, 2019, 80, 714-730.	1.4	85
7	Voriconazole loaded nanostructured lipid carriers based topical delivery system: QbD based designing, characterization, in-vitro and ex-vivo evaluation. Journal of Drug Delivery Science and Technology, 2019, 52, 303-315.	1.4	83
8	Recent advances in targeted nanomedicine as promising antitumor therapeutics. Drug Discovery Today, 2020, 25, 2227-2244.	3.2	71
9	Multi-drug resistant Mycobacterium tuberculosis & oxidative stress complexity: Emerging need for novel drug delivery approaches. Biomedicine and Pharmacotherapy, 2018, 107, 1218-1229.	2.5	68
10	Emerging landscape in psoriasis management: From topical application to targeting biomolecules. Biomedicine and Pharmacotherapy, 2018, 106, 707-713.	2.5	68
11	Biodegradable microneedles fabricated with carbohydrates and proteins: Revolutionary approach for transdermal drug delivery. International Journal of Biological Macromolecules, 2021, 170, 602-621.	3.6	67
12	Design and Biological Evaluation of Lipoprotein-Based Donepezil Nanocarrier for Enhanced Brain Uptake through Oral Delivery. ACS Chemical Neuroscience, 2019, 10, 4124-4135.	1.7	63
13	UV Spectrophotometric method for characterization of curcumin loaded nanostructured lipid nanocarriers in simulated conditions: Method development, in-vitro and ex-vivo applications in topical delivery. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117392.	2.0	63
14	MicroRNAs as biological regulators in skin disorders. Biomedicine and Pharmacotherapy, 2018, 108, 996-1004.	2.5	58
15	QbD-driven formulation development and evaluation of topical hydrogel containing ketoconazole loaded cubosomes. Materials Science and Engineering C, 2021, 119, 111548.	3.8	49
16	Design and optimization of curcumin loaded nano lipid carrier system using Box-Behnken design. Biomedicine and Pharmacotherapy, 2021, 141, 111919.	2.5	48
17	Insights of lyotropic liquid crystals in topical drug delivery for targeting various skin disorders. Journal of Molecular Liquids, 2020, 315, 113771.	2.3	46
18	Recent Expansions on Cellular Models to Uncover the Scientific Barriers Towards Drug Development for Alzheimerâ€™s Disease. Cellular and Molecular Neurobiology, 2019, 39, 181-209.	1.7	44

#	Article	IF	Citations
19	Psoriasis: pathological mechanisms, current pharmacological therapies, and emerging drug delivery systems. Drug Discovery Today, 2020, 25, 2212-2226.	3.2	44
20	Chitosan-based microneedles as a potential platform for drug delivery through the skin: Trends and regulatory aspects. International Journal of Biological Macromolecules, 2021, 184, 438-453.	3.6	44
21	Emerging trends of nanotechnology in advanced cosmetics. Colloids and Surfaces B: Biointerfaces, 2022, 214, 112440.	2.5	44
22	Microsponge: An emerging drug delivery strategy. Drug Development Research, 2019, 80, 200-208.	1.4	41
23	Insulin mediated novel therapies for the treatment of Alzheimer's disease. Life Sciences, 2020, 249, 117540.	2.0	41
24	Oral peptide delivery: challenges and the way ahead. Drug Discovery Today, 2021, 26, 931-950.	3.2	40
25	Targeted drug-delivery systems in the treatment of rheumatoid arthritis: recent advancement and clinical status. Therapeutic Delivery, 2020, 11, 269-284.	1.2	40
26	Biomaterials in treatment of Alzheimer's disease. Neurochemistry International, 2021, 145, 105008.	1.9	39
27	Nanostructured Lipid Carriers as Potential Drug Delivery Systems for Skin Disorders. Current Pharmaceutical Design, 2020, 26, 4569-4579.	0.9	38
28	Nanocarriers For Drug Delivery: Mini Review. Current Nanomedicine, 2018, 8, 88-99.	0.2	37
29	Emerging Trends in Topical Delivery of Curcumin Through Lipid Nanocarriers: Effectiveness in Skin Disorders. AAPS PharmSciTech, 2020, 21, 284.	1.5	35
30	Dermatokinetic assessment of luliconazole-loaded nanostructured lipid carriers (NLCs) for topical delivery: QbD-driven design, optimization, and in vitro and ex vivo evaluations. Drug Delivery and Translational Research, 2022, 12, 1118-1135.	3.0	33
31	Luliconazole loaded lyotropic liquid crystalline nanoparticles for topical delivery: QbD driven optimization, in-vitro characterization and dermatokinetic assessment. Chemistry and Physics of Lipids, 2021, 234, 105028.	1.5	31
32	Surface engineered nanocarriers for the management of breast cancer. Materials Science and Engineering C, 2021, 130, 112441.	3.8	30
33	Peroxisome proliferator-activated receptor gamma: promising target in glioblastoma. Panminerva Medica, 2018, 60, 109-116.	0.2	29
34	Lyotropic liquid crystal nanoparticles. , 2018, , 471-517.		29
35	Emerging role of nanocarriers based topical delivery of <scp>antiâ€fungal</scp> agents in combating growing fungal infections. Dermatologic Therapy, 2020, 33, e13905.	0.8	29
36	Design of temozolomide-loaded proliposomes and lipid crystal nanoparticles with industrial feasible approaches: comparative assessment of drug loading, entrapment efficiency, and stability at plasma pH. Journal of Liposome Research, 2021, 31, 158-168.	1.5	29

#	Article	IF	Citations
37	Evolving new-age strategies to transport therapeutics across the blood-brain-barrier. International Journal of Pharmaceutics, 2021, 599, 120351.	2.6	29
38	Nanocarriers for Topical Drug Delivery: Approaches and Advancements. Nanoscience and Nanotechnology - Asia, 2019, 9, 329-336.	0.3	29
39	UV spectrophotometric method for simultaneous estimation of betamethasone valerate and tazarotene with absorption factor method: Application for in-vitro and ex-vivo characterization of lipidic nanocarriers for topical delivery. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 235, 118310.	2.0	25
40	Nanocarrier mediated drug delivery as an impeccable therapeutic approach against Alzheimerâ€™s disease. Journal of Controlled Release, 2022, 343, 528-550.	4.8	25
41	Quality by design (QbD) in the formulation and optimization of liquid crystalline nanoparticles (LCNPs): A risk based industrial approach. Biomedicine and Pharmacotherapy, 2021, 141, 111940.	2.5	24
42	Pre-clinical pharmacokinetic-pharmacodynamic modelling and biodistribution studies of donepezil hydrochloride by a validated HPLC method. RSC Advances, 2018, 8, 24740-24749.	1.7	23
43	Solid lipid nanocarriers embedded hydrogel for topical delivery of apremilast: In-vitro, ex-vivo, dermatopharmacokinetic and anti-psoriatic evaluation. Journal of Drug Delivery Science and Technology, 2021, 63, 102442.	1.4	23
44	Design and dermatokinetic evaluation of Apremilast loaded nanostructured lipid carriers embedded gel for topical delivery: A potential approach for improved permeation and prolong skin deposition. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111945.	2.5	23
45	Stability indicating liquid chromatographic method for simultaneous quantification of betamethasone valerate and tazarotene in in vitro and ex vivo studies of complex nanoformulation. Journal of Separation Science, 2019, 42, 3413-3420.	1.3	21
46	Nanocarriers for topical delivery in psoriasis. , 2020, , 75-96.		21
47	Repurposing methylene blue in the management of COVID-19: Mechanistic aspects and clinical investigations. Biomedicine and Pharmacotherapy, 2021, 142, 112023.	2.5	21
48	Herbal Medicines in Neurodegenerative Disorders: An Evolutionary Approach through Novel Drug Delivery System. Journal of Environmental Pathology, Toxicology and Oncology, 2018, 37, 199-208.	0.6	21
49	Nanocarrier Based Topical Drug Delivery- A Promising Strategy for Treatment of Skin Cancer. Current Pharmaceutical Design, 2020, 26, 4615-4623.	0.9	21
50	Understanding the Pharmaceutical Aspects of Dendrimers for the Delivery of Anticancer Drugs. Current Drug Targets, 2020, 21, 528-540.	1.0	21
51	Tailoring the multi-functional properties of phospholipids for simple to complex self-assemblies. Journal of Controlled Release, 2022, 349, 460-474.	4.8	21
52	Application of QbD Principles in Nanocarrier-Based Drug Delivery Systems. , 2019, , 255-296.		20
53	Lipid shell lipid nanocapsules as smart generation lipid nanocarriers. Journal of Molecular Liquids, 2021, 339, 117145.	2.3	20
54	Targeting microRNAs using nanotechnology in pulmonary diseases. Panminerva Medica, 2018, 60, 230-231.	0.2	19

#	Article	IF	Citations
55	Recent advances in nanocarriers for nutrient delivery. Drug Delivery and Translational Research, 2022, 12, 2359-2384.	3.0	19
56	Revisiting techniques to evaluate drug permeation through skin. Expert Opinion on Drug Delivery, 2021, 18, 1829-1842.	2.4	18
57	Fluorescence-based method for sensitive and rapid estimation of chlorin e6 in stealth liposomes for photodynamic therapy against cancer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118823.	2.0	17
58	The Hedgehog pathway and its inhibitors: Emerging therapeutic approaches for basal cell carcinoma. Drug Discovery Today, 2022, 27, 1176-1183.	3.2	17
59	CD44 receptor-targeted novel drug delivery strategies for rheumatoid arthritis therapy. Expert Opinion on Drug Delivery, 2021, 18, 1553-1557.	2.4	16
60	Potential herbal constituents for psoriasis treatment as protective and effective therapy. Phytotherapy Research, 2021, 35, 2429-2444.	2.8	15
61	Exploring the affluent potential of glyceryl mono oleate â€“ myristol liquid crystal nanoparticles mediated localized topical delivery of Tofacitinib: Study of systematic QbD, skin deposition and dermal pharmacokinetics assessment. Journal of Molecular Liquids, 2022, 346, 117053.	2.3	15
62	Nanocarriers as Potential Targeted Drug Delivery for Cancer Therapy. Environmental Chemistry for A Sustainable World, 2020, , 51-88.	0.3	15
63	Microbiome as therapeutics in vesicular delivery. Biomedicine and Pharmacotherapy, 2018, 104, 738-741.	2.5	14
64	Improved skin-permeated diclofenac-loaded lyotropic liquid crystal nanoparticles: QbD-driven industrial feasible process and assessment of skin deposition. Liquid Crystals, 2021, 48, 991-1009.	0.9	14
65	Emerging trends in microneedle-based drug delivery strategies for the treatment of rheumatoid arthritis. Expert Opinion on Drug Delivery, 2022, 19, 395-407.	2.4	14
66	Emerging innovations in nano-enabled therapy against age-related macular degeneration: A paradigm shift. International Journal of Pharmaceutics, 2021, 600, 120499.	2.6	13
67	Dermato-pharmacokinetic: assessment tools for topically applied dosage forms. Expert Opinion on Drug Delivery, 2021, 18, 423-426.	2.4	11
68	Spectrophotometric method to quantify tofacitinib in lyotropic liquid crystalline nanoparticles and skin layers: Application in ex vivo dermal distribution studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119719.	2.0	11
69	Bacterial biofilms associated skin disorders: Pathogenesis, advanced pharmacotherapy and nanotechnology-based drug delivery systems as a treatment approach. Life Sciences, 2021, 287, 120148.	2.0	11
70	QbD-driven development and validation of HPLC method for determination of Bisphenol A and Bis-sulphone in environmental samples. International Journal of Environmental Analytical Chemistry, 2020, 100, 42-54.	1.8	10
71	Role of stealth lipids in nanomedicine-based drug carriers. Chemistry and Physics of Lipids, 2021, 235, 105036.	1.5	10
72	UV spectroscopic method for estimation of temozolomide: Application in stability studies in simulated plasma pH, degradation rate kinetics, formulation design, and selection of dissolution media. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 258, 119848.	2.0	10

#	Article	IF	Citations
73	Uncovering the Diversification of Tissue Engineering on the Emergent Areas of Stem Cells, Nanotechnology and Biomaterials. Current Stem Cell Research and Therapy, 2020, 15, 187-201.	0.6	10
74	Nanotherapies for the Treatment of Age-Related Macular Degeneration (AMD) Disease: Recent Advancements and Challenges. Recent Patents on Drug Delivery and Formulation, 2020, 13, 283-290.	2.1	10
75	Drug delivery to the brain. , 2019, , 461-514.		9
76	Study the effect of formulation variables on drug release from hydrophilic matrix tablets of milnacipran and prediction ofin-vivoplasma profile. Pharmaceutical Development and Technology, 2014, 19, 708-716.	1.1	8
77	Insightful exploring <scp>of microRNAs</scp> in psoriasis and its targeted topical delivery. Dermatologic Therapy, 2020, 33, e14221.	0.8	8
78	Regulatory aspects in process development and scale-up of nanopharmaceuticals. Therapeutic Delivery, 2020, 11, 341-343.	1.2	8
79	Prediction ofin vivoplasma concentrationâ€“time profile fromin vitrorelease data of designed formulations of milnacipran using numerical convolution method. Drug Development and Industrial Pharmacy, 2015, 41, 105-108.	0.9	7
80	Optimization of Solid Lipid Nanoparticles of Ezetimibe in Combination with Simvastatin Using Quality by Design (QbD). Nanoscience and Nanotechnology - Asia, 2020, 10, 404-418.	0.3	7
81	Recent Avenues in Novel Patient-Friendly Techniques for the Treatment of Diabetes. Current Drug Delivery, 2020, 17, 3-14.	0.8	5
82	Quality by design assisted optimization of temozolomide loaded PEGylated lyotropic liquid crystals: Investigating various formulation and process variables along with in-vitro characterization. Journal of Molecular Liquids, 2022, 352, 118724.	2.3	5
83	Design and Characterization of Polymeric Nanoparticles of Pioglitazone Hydrochloride and Study the Effect of Formulation Variables Using QbD Approach. Current Nanomaterials, 2018, 2, 162-168.	0.2	4
84	Design of experiment-driven stability-indicating RP-HPLC method for the determination of tofacitinib in nanoparticles and skin matrix. Future Journal of Pharmaceutical Sciences, 2021, 7, .	1.1	2
85	Development of Bioanalytical HPLC Method for Estimation of Milnacipran Hydrochloride in Rabbit Plasma Using Solid Phase Extraction Technique and its Application in Pharmacokinetic Investigation. Current Pharmaceutical Analysis, 2017, 13, .	0.3	2
86	In vitro Lipolysis: An Indispensable Tool for the Development of IVIVC of Lipid Based Drug Delivery Systems. Drug Delivery Letters, 2017, 7, .	0.2	2
87	Alginate: Drug Delivery and Application. , 2019, , 307-334.		2
88	Editorial: In-vitro and In-vivo Correlations [IVIVCs] for Lipid Based Nano Formulations. Drug Delivery Letters, 2017, 7, .	0.2	1
89	Simultaneous estimation of parabens and bisphenol a in ready-to-eat foodstuffs by using QbD-driven high-pressure liquid chromatography method. International Journal of Environmental Analytical Chemistry, 2020, , 1-16.	1.8	1
90	Application of photodynamic therapy drugs for management of glioma. , 2021, , 162-174.		1

#	Article	IF	Citations
91	Bioanalytical methodologies for clinical investigation of endocrine-disrupting chemicals: a comprehensive update. Bioanalysis, 2021, 13, 29-44.	0.6	1
92	Development and Validation of Reverseâ€Phase Highâ€Performance Liquid Chromatography Method for Estimation of Itraconazole through Hydroxypropyl Methylcellulose Acetate Succinate based Polymeric Films using Quality by Design principles. Separation Science Plus, 0, , .	0.3	1
93	Pharmaceutical Applications of Gellan Gum. , 2019, , 87-109.		1
94	Microparticulate drug delivery systems for targeting respiratory diseases. , 2020, , 337-357.		1
95	A Systematic Review on Analytical Methods to Determine Chiral and Achiral Forms of Venlafaxine and its Metabolite O-desmethylvenlafaxine. Current Pharmaceutical Analysis, 2020, 16, 474-486.	0.3	0