Steve P Rannard

List of Publications by Year
in descending order

115	4,465	136950	114465
papers	citations	32 h-index	63 g-index

126	126	126	6077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aligned two- and three-dimensional structures by directional freezing of polymers and nanoparticles. Nature Materials, 2005, 4, 787-793.	27.5	721
2	Size-Controlled Synthesis of Near-Monodisperse Gold Nanoparticles in the 1â"'4 nm Range Using Polymeric Stabilizers. Journal of the American Chemical Society, 2005, 127, 16398-16399.	13.7	331
3	Development of Branching in Living Radical Copolymerization of Vinyl and Divinyl Monomers. Macromolecules, 2006, 39, 7483-7492.	4.8	186
4	Degradation of C60 by light. Nature, 1991, 351, 277-277.	27.8	152
5	Formation and enhanced biocidal activity of water-dispersable organic nanoparticles. Nature Nanotechnology, 2008, 3, 506-511.	31.5	135
6	Prioritization of Antiâ€SARSâ€Covâ€2 Drug Repurposing Opportunities Based on Plasma and Target Site Concentrations Derived from their Established Human Pharmacokinetics. Clinical Pharmacology and Therapeutics, 2020, 108, 775-790.	4.7	118
7	Preparation of Shell Cross-Linked Micelles by Polyelectrolyte Complexation. Angewandte Chemie - International Edition, 2004, 43, 1389-1392.	13.8	116
8	Strengths, weaknesses, opportunities and challenges for long acting injectable therapies: Insights for applications in HIV therapy. Advanced Drug Delivery Reviews, 2016, 103, 144-156.	13.7	113
9	Selective One-Pot Synthesis of Trithiocarbonates, Xanthates, and Dithiocarbamates for Use in RAFT/MADIX Living Radical Polymerizations. Organic Letters, 2006, 8, 553-556.	4.6	106
10	The Selective Reaction of Primary Amines with Carbonyl Imidazole Containing Compounds:â€‰ Selective Amide and Carbamate Synthesis. Organic Letters, 2000, 2, 2117-2120.	4.6	96
11	Controlled Synthesis of Asymmetric Dialkyl and Cyclic Carbonates Using the Highly Selective Reactions of Imidazole Carboxylic Esters. Organic Letters, 1999, 1, 933-936.	4.6	84
12	Physiologically Based Pharmacokinetic Modelling to Inform Development of Intramuscular Long-Acting Nanoformulations for HIV. Clinical Pharmacokinetics, 2015, 54, 639-650.	3.5	79
13	Antiretroviral Solid Drug Nanoparticles with Enhanced Oral Bioavailability: Production, Characterization, and In Vitroâ€"In Vivo Correlation. Advanced Healthcare Materials, 2014, 3, 400-411.	7.6	73
14	pH-Responsive branched polymer nanoparticles. Soft Matter, 2008, 4, 985.	2.7	71
15	Long-acting injectable atovaquone nanomedicines for malaria prophylaxis. Nature Communications, 2018, 9, 315.	12.8	68
16	Polymerâ€Mediated Hierarchical and Reversible Emulsion Droplet Assembly. Angewandte Chemie - International Edition, 2009, 48, 2131-2134.	13.8	67
17	Systematic tuning of pore morphologies and pore volumes in macroporous materials by freezing. Journal of Materials Chemistry, 2009, 19, 5212.	6.7	65
18	A Highly Selective, One-Pot Multiple-Addition Convergent Synthesis of Polycarbonate Dendrimers. Journal of the American Chemical Society, 2000, 122, 11729-11730.	13.7	64

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19	Synthesis and Characterization of Shell Cross-Linked Micelles with Hydroxy-Functional Coronas:Â A Pragmatic Alternative to Dendrimers?. Langmuir, 2005, 21, 3808-3813.	3.5	57
20	Multicomponent Organic Nanoparticles for Fluorescence Studies in Biological Systems. Advanced Functional Materials, 2012, 22, 2469-2478.	14.9	56
21	Polymer Nanoparticles: Shape-Directed Monomer-to-Particle Synthesis. Journal of the American Chemical Society, 2009, 131, 1495-1501.	13.7	54
22	Synthesis of Water Soluble Hyperbranched Polyurethanes Using Selective Activation of AB2Monomers. Macromolecules, 2004, 37, 9418-9430.	4.8	53
23	Direct Synthesis of Anisotropic Polymer Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 9243-9247.	13.8	49
24	Dose prediction for repurposing nitazoxanide in SARSâ€CoVâ€2 treatment or chemoprophylaxis. British Journal of Clinical Pharmacology, 2021, 87, 2078-2088.	2.4	46
25	Controlled synthesis of calcium carbonate nanoparticles and stimuli-responsive multi-layered nanocapsules for oral drug delivery. International Journal of Pharmaceutics, 2020, 574, 118866.	5.2	45
26	Selective Convergent Synthesis of Aliphatic Polyurethane Dendrimers. Macromolecules, 2003, 36, 9704-9706.	4.8	44
27	Accelerated oral nanomedicine discovery from miniaturized screening to clinical production exemplified by paediatric HIV nanotherapies. Nature Communications, 2016, 7, 13184.	12.8	44
28	Room Temperature Waterborne ATRP ofn-Butyl Methacrylate in Homogeneous Alcoholic Media. Macromolecules, 2001, 34, 8600-8602.	4.8	43
29	Hyperbranched polydendrons: a new controlled macromolecular architecture with self-assembly in water and organic solvents. Chemical Science, 2014, 5, 1844-1853.	7.4	42
30	Inhibitory Effects of Commonly Used Excipients on P-Glycoprotein in Vitro. Molecular Pharmaceutics, 2018, 15, 4835-4842.	4.6	42
31	Structureâ€"LCST relationships for end-functionalized water-soluble polymers: an â€œacceleratedâ€• approach to phase behaviour studies. Chemical Communications, 2007, , 2962-2964.	4.1	40
32	Randomised controlled trial of intravenous nafamostat mesylate in COVID pneumonitis: Phase 1b/2a experimental study to investigate safety, Pharmacokinetics and Pharmacodynamics. EBioMedicine, 2022, 76, 103856.	6.1	38
33	Mediation of in Vitro Cytochrome P450 Activity by Common Pharmaceutical Excipients. Molecular Pharmaceutics, 2013, 10, 2739-2748.	4.6	36
34	Synthesis and characterisation of new shell cross-linked micelles with amine-functional coronas. European Polymer Journal, 2006, 42, 1487-1498.	5.4	35
35	Semi-solid prodrug nanoparticles for long-acting delivery of water-soluble antiretroviral drugs within combination HIV therapies. Nature Communications, 2019, 10, 1413.	12.8	34
36	Controlling responsive emulsion properties via polymer design. Chemical Communications, 2009, , 3554.	4.1	33

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37	Branched copolymer-stabilised nanoemulsions as new candidate oral drug delivery systems. RSC Advances, 2018, 8, 12984-12991.	3.6	32
38	Hyperbranched polydendrons: a new nanomaterials platform with tuneable permeation through model gut epithelium. Chemical Science, 2015, 6, 326-334.	7.4	31
39	Nanoformulation strategies for the enhanced oral bioavailability of antiretroviral therapeutics. Therapeutic Delivery, 2015, 6, 469-490.	2.2	31
40	One-pot synthesis of methacrylic acidâ€“ethylene oxide branched block and graft copolymers. Journal of Materials Chemistry, 2007, 17, 545-552.	6.7	28
41	Architecture-driven aqueous stability of hydrophobic, branched polymer nanoparticles prepared by rapid nanoprecipitation. Soft Matter, 2012, 8, 9816.	2.7	28
42	Use of a physiologically-based pharmacokinetic model to simulate artemether dose adjustment for overcoming the drug-drug interaction with efavirenz. In Silico Pharmacology, 2013, 1, 4.	3.3	26
43	In Silico Dose Prediction for Long-Acting Rilpivirine and Cabotegravir Administration to Children and Adolescents. Clinical Pharmacokinetics, 2018, 57, 255-266.	3.5	26
44	Investigation of the Experimental Factors Affecting the Trithiocarbonate-Mediated RAFT Polymerization of Methyl Acrylate. Australian Journal of Chemistry, 2007, 60, 772.	0.9	25
45	Synthesis and thermal studies of aliphatic polyurethane dendrimers: a geometric approach to the Floryâ€“Fox equation for dendrimer glass transition temperature. Soft Matter, 2012, 8, 1096-1108.	2.7	23
46	Research Spotlight: Nanomedicines for HIV therapy. Therapeutic Delivery, 2013, 4, 153-156.	2.2	23
47	Optimization of the synthetic parameters of lipid polymer hybrid nanoparticles dual loaded with darunavir and ritonavir for the treatment of HIV. International Journal of Pharmaceutics, 2020, 588, 119794.	5.2	22
48	Synthesis of dendritic polyamides using novel selective chemistry. Polymer International, 2000, 49, 1002-1006.	3.1	20
49	Facile synthesis of complex multi-component organic and organicâ€“magnetic inorganic nanocomposite particles. Journal of Materials Chemistry, 2012, 22, 24744.	6.7	20
50	Towards a Maraviroc long-acting injectable nanoformulation. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 138, 92-98.	4.3	20
51	Nanomedicine: Not a case of â€œOne size fits allâ€• Nano Today, 2009, 4, 382-384.	11.9	18
52	Assessment of interactions of efavirenz solid drug nanoparticles with human immunological and haematological systems. Journal of Nanobiotechnology, 2018, 16, 22.	9.1	18
53	The first peripherally masked thiol dendrimers: a facile and highly efficient functionalization strategy of polyester dendrimers via one-pot xanthate deprotection/thiolâ€“acrylate Michael addition reactions. Chemical Communications, 2014, 50, 6574-6577.	4.1	17
54	Towards a rational design of solid drug nanoparticles with optimised pharmacological properties. Journal of Interdisciplinary Nanomedicine, 2016, 1, 110-123.	3.6	17

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55	Improving maraviroc oral bioavailability by formation of solid drug nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 138, 30-36.	4.3	17
56	Redispersible nanosuspensions as a plausible oral delivery system for curcumin. Food Hydrocolloids, 2021, 121, 107005.	10.7	17
57	One-pot, single-component synthesis of functional emulsion-templated hybrid inorganicâ€“organic polymer capsules. Chemical Communications, 2012, 48, 1592-1594.	4.1	16
58	Partial mitigation of gold nanoparticle interactions with human lymphocytes by surface functionalization with a â€˜mixed matrixâ€™. Nanomedicine, 2014, 9, 2467-2479.	3.3	16
59	â€˜One-potâ€™ sequential deprotection/functionalisation of linear-dendritic hybrid polymers using a xanthate mediated thiol/Michael addition. Polymer Chemistry, 2015, 6, 573-582.	3.9	16
60	Impact of long-acting therapies on the global HIV epidemic. Aids, 2021, 35, S137-S143.	2.2	16
61	Synthesis of well-defined Locust Bean Gum-graft-copolymers using ambient aqueous atom transfer radical polymerisation. Chemical Communications, 2007, , 362-364.	4.1	15
62	High-throughput nanoprecipitation of the organic antimicrobial triclosan and enhancement of activity against Escherichia coli. Journal of Materials Chemistry B, 2013, 1, 4455.	5.8	15
63	Synthesis, nanoprecipitation and pH sensitivity of amphiphilic linearâ€“dendritic hybrid polymers and hyperbranched-polydendrons containing tertiary amine functional dendrons. Soft Matter, 2015, 11, 7005-7015.	2.7	15
64	Augmented Inhibition of CYP3A4 in Human Primary Hepatocytes by Ritonavir Solid Drug Nanoparticles. Molecular Pharmaceutics, 2015, 12, 3556-3568.	4.6	15
65	Controlling drug release from non-aqueous environments: Moderating delivery from ocular silicone oil drug reservoirs to combat proliferative vitreoretinopathy. Journal of Controlled Release, 2016, 244, 41-51.	9.9	14
66	Critical considerations for targeting colorectal liver metastases with nanotechnology. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1588.	6.1	14
67	Insights into the internal structures of nanogels using a versatile asymmetric-flow field-flow fractionation method. Nanoscale Advances, 2020, 2, 4713-4721.	4.6	13
68	Synthesis and characterisation of polyamide dendrimers with systematically varying surface functionality. Chemical Communications, 2009, , 3095.	4.1	12
69	Is methanol really a bad solvent for poly(n-butyl methacrylate)? Low dispersity and high molecular weight polymers of n-butyl methacrylate synthesised via ATRP in anhydrous methanol. Polymer Chemistry, 2014, 5, 3608-3616.	3.9	12
70	The Application of Nanotechnology toÂDrug Delivery in Medicine. , 2015, , 173-223.		12
71	Intracellular delivery of nanoâ€formulated antituberculosis drugs enhances bactericidal activity. Journal of Interdisciplinary Nanomedicine, 2017, 2, 146-156.	3.6	12
72	Recommendations for clinical translation of nanoparticle-enhanced radiotherapy. British Journal of Radiology, 2018, 91, 20180325.	2.2	12

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73	Hyperbranched polymers with step-growth chemistries from transfer-dominated branching radical telomerisation (TBRT) of divinyl monomers. Polymer Chemistry, 2020, 11, 7637-7649.	3.9	12
74	Scalable nanoprecipitation of niclosamide andin vivodemonstration of long-acting delivery after intramuscular injection. Nanoscale, 2021, 13, 6410-6416.	5.6	11
75	MADIX polymerization of vinyl acetate using ethyl acetate as a green solvent; near-complete monomer conversion with molecular weight control. Journal of Polymer Science Part A, 2017, 55, 2427-2431.	2.3	10
76	Co-initiated hyperbranched-polydendron building blocks for the direct nanoprecipitation of dendron-directed patchy particles with heterogeneous surface functionality. Polymer Chemistry, 2018, 9, 1767-1771.	3.9	10
77	Expanding the monomer scope of linear and branched vinyl polymerisations via copper-catalysed reversible-deactivation radical polymerisation of hydrophobic methacrylates using anhydrous alcohol solvents. Polymer Chemistry, 2019, 10, 5103-5115.	3.9	10
78	Mucus-responsive functionalized emulsions: design, synthesis and study of novel branched polymers as functional emulsifiers. RSC Advances, 2020, 10, 30463-30475.	3.6	10
79	Dual-responsive degradable coreâ€“shell nanogels with tuneable aggregation behaviour. RSC Advances, 2022, 12, 2196-2206.	3.6	10
80	Synthesis and in vivo magnetic resonance imaging evaluation of biocompatible branched copolymer nanocontrast agents. International Journal of Nanomedicine, 2015, 10, 5895.	6.7	9
81	Flow cytometric analysis of the physical and protein-binding characteristics of solid drug nanoparticle suspensions. Nanomedicine, 2015, 10, 1407-1421.	3.3	9
82	Stable, polymer-directed and SPION-nucleated magnetic amphiphilic block copolymer nanoprecipitates with readily reversible assembly in magnetic fields. Nanoscale, 2016, 8, 7224-7231.	5.6	9
83	Evaluating the impact of systematic hydrophobic modification of model drugs on the control, stability and loading of lipid-based nanoparticles. Journal of Materials Chemistry B, 2021, 9, 9874-9884.	5.8	9
84	Controlled synthesis of radiolabelled amine methacrylate water-soluble polymers with end-groups of varying hydrophobicity and studies of adsorption behaviour. Polymer Chemistry, 2012, 3, 154-161.	3.9	8
85	Multiple and Co-Nanoprecipitation Studies of Branched Hydrophobic Copolymers and Aâ€“B Amphiphilic Block Copolymers, Allowing Rapid Formation of Sterically Stabilized Nanoparticles in Aqueous Media. Macromolecules, 2015, 48, 1883-1893.	4.8	8
86	Role of highly branched, high molecular weight polymer structures in directing uniform polymer particle formation during nanoprecipitation. Chemical Communications, 2016, 52, 3915-3918.	4.1	8
87	Modulated release from implantable ocular silicone oil tamponade drug reservoirs. Journal of Polymer Science Part A, 2018, 56, 938-946.	2.3	8
88	Utilising 14C-radiolabelled atom transfer radical polymerisation initiators. Chemical Communications, 2009, , 6406.	4.1	7
89	Monitoring Atom Transfer Radical Polymerisation using¹⁴C-radiolabelled initiators. Polymer Chemistry, 2011, 2, 581-588.	3.9	7
90	Simulating Intestinal Transporter and Enzyme Activity in a Physiologically Based Pharmacokinetic Model for Tenofovir Disoproxil Fumarate. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	7

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91	The emerging role of physiologically based pharmacokinetic modelling in solid drug nanoparticle translation. Advanced Drug Delivery Reviews, 2018, 131, 116-121.	13.7	7
92	Long-Acting Injectable Statinsâ€"Is It Time for a Paradigm Shift?. Molecules, 2019, 24, 2685.	3.8	7
93	Quantification of branching within high molecular weight polymers with polyester backbones formed by transfer-dominated branching radical telomerisation (TBRT). RSC Advances, 2021, 11, 24374-24380.	3.6	7
94	The synthesis and characterisation of poly(14-cyclopentenylene-5,6-ethylidene-2,3-disodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.3	6
95	The Application of Nanodispersions to Agriculture. Outlooks on Pest Management, 2010, 21, 190-192.	0.2	6
96	In situ xanthate deprotection to generate thiol chain transfer agents for conventional free radical linear and branched vinyl polymerization. Journal of Polymer Science Part A, 2017, 55, 3963-3967.	2.3	6
97	Exploring the homogeneous controlled radical polymerisation of hydrophobic monomers in anti-solvents for their polymers: RAFT and ATRP of various alkyl methacrylates in anhydrous methanol to high conversion and low dispersity. Polymer Chemistry, 2015, 6, 7286-7296.	3.9	5
98	Model studies of the sequential and simultaneous statistical modification of dendritic functional groups and their implications within complex polymer architecture synthesis. Polymer Chemistry, 2017, 8, 1644-1653.	3.9	5
99	Lack of interaction of lopinavir solid drug nanoparticles with cells of the immune system. Nanomedicine, 2017, 12, 2043-2054.	3.3	5
100	Anhydrous nanoprecipitation for the preparation of nanodispersions of tenofovir disoproxil fumarate in oils as candidate long-acting injectable depot formulations. Nanoscale Advances, 2019, 1, 4301-4307.	4.6	5
101	Chasing COVIDâ€19 chemotherapeutics without putting the cart before the horse. British Journal of Clinical Pharmacology, 2023, 89, 421-423.	2.4	5
102	Architectural control of polystyrene physical properties using branched anionic polymerization initiated at ambient temperature. Journal of Polymer Science, 2020, 58, 1426-1438.	3.8	5
103	Efficacy and safety of nitazoxanide plus atazanavir/ritonavir for the treatment of moderate to severe COVID-19 (NACOVID): A structured summary of a study protocol for a randomised controlled trial. Trials, 2021, 22, 3.	1.6	5
104	Impact of multi-vinyl taxogen dimensions on high molecular weight soluble polymer synthesis using transfer-dominated branching radical telomerisation. Polymer Chemistry, 2021, 12, 6472-6483.	3.9	5
105	Using pyrene to probe the effects of poloxamer stabilisers on internal lipid microenvironments in solid lipid nanoparticles. Nanoscale Advances, 2020, 2, 5572-5577.	4.6	5
106	Accessing new and scalable high molecular weight branched copolymer structures using transfer-dominated branching radical telomerisation (TBRT). Polymer Chemistry, 0, , .	3.9	5
107	Considerations for clinically-relevant nanomedicine therapies for chronic diseases. Nanomedicine, 2015, 10, 3103-3107.	3.3	4
108	Reactions of hydrophobic organic nanoparticle mixtures in water: nanoparticle-on-nanoparticle oxidative dye bleaching. Green Chemistry, 2013, 15, 1590.	9.0	3

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109	Emerging nanomedicine applications and manufacturing: progress and challenges. Nanomedicine, 2016, 11, 577-580.	3.3	3
110	Designing single trigger/dual-response release and degradation into amine-functional hyperbranched-polydendron nanoprecipitates. Nanoscale Advances, 2020, 2, 5468-5477.	4.6	3
111	Linear and branched polymer prodrugs of the water-soluble nucleoside reverse-transcriptase inhibitor emtricitabine as structural materials for long-acting implants. Journal of Materials Chemistry B, 2022, 10, 4395-4404.	5.8	3
112	The potential value of nanomedicine and novel oral dosage forms in the treatment of HIV. Nanomedicine, 2018, 13, 1963-1965.	3.3	2
113	Interdisciplinary nanomedicine publications through interdisciplinary peer-review. Journal of Interdisciplinary Nanomedicine, 2016, 1, 4-8.	3.6	1
114	In vitro characterisation of solid drug nanoparticle compositions of efavirenz in a brain endothelium cell line. Journal of Interdisciplinary Nanomedicine, 2017, 2, 157-169.	3.6	0
115	Safety assessment of a new nanoemulsion-based drug-delivery system reveals unexpected, drug-free anticoagulant activity. Nanomedicine, 2020, 15, 1361-1373.	3.3	0