

Steve P Rannard

List of Publications by Year in descending order

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115
papers

4,465
citations

136740

32
h-index

114278

63
g-index

126
all docs

126
docs citations

126
times ranked

6077
citing authors

#	ARTICLE	IF	CITATIONS
1	Aligned two- and three-dimensional structures by directional freezing of polymers and nanoparticles. <i>Nature Materials</i> , 2005, 4, 787-793.	13.3	721
2	Size-Controlled Synthesis of Near-Monodisperse Gold Nanoparticles in the 1~4 nm Range Using Polymeric Stabilizers. <i>Journal of the American Chemical Society</i> , 2005, 127, 16398-16399.	6.6	331
3	Development of Branching in Living Radical Copolymerization of Vinyl and Divinyl Monomers. <i>Macromolecules</i> , 2006, 39, 7483-7492.	2.2	186
4	Degradation of C60 by light. <i>Nature</i> , 1991, 351, 277-277.	13.7	152
5	Formation and enhanced biocidal activity of water-dispersable organic nanoparticles. <i>Nature Nanotechnology</i> , 2008, 3, 506-511.	15.6	135
6	Prioritization of Anti- <i>SARS-CoV-2</i> Drug Repurposing Opportunities Based on Plasma and Target Site Concentrations Derived from their Established Human Pharmacokinetics. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 108, 775-790.	2.3	118
7	Preparation of Shell Cross-Linked Micelles by Polyelectrolyte Complexation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1389-1392.	7.2	116
8	Strengths, weaknesses, opportunities and challenges for long acting injectable therapies: Insights for applications in HIV therapy. <i>Advanced Drug Delivery Reviews</i> , 2016, 103, 144-156.	6.6	113
9	Selective One-Pot Synthesis of Trithiocarbonates, Xanthates, and Dithiocarbamates for Use in RAFT/MADIX Living Radical Polymerizations. <i>Organic Letters</i> , 2006, 8, 553-556.	2.4	106
10	The Selective Reaction of Primary Amines with Carbonyl Imidazole Containing Compounds:~ Selective Amide and Carbamate Synthesis. <i>Organic Letters</i> , 2000, 2, 2117-2120.	2.4	96
11	Controlled Synthesis of Asymmetric Dialkyl and Cyclic Carbonates Using the Highly Selective Reactions of Imidazole Carboxylic Esters. <i>Organic Letters</i> , 1999, 1, 933-936.	2.4	84
12	Physiologically Based Pharmacokinetic Modelling to Inform Development of Intramuscular Long-Acting Nanoformulations for HIV. <i>Clinical Pharmacokinetics</i> , 2015, 54, 639-650.	1.6	79
13	Antiretroviral Solid Drug Nanoparticles with Enhanced Oral Bioavailability: Production, Characterization, and In Vitro~ In Vivo Correlation. <i>Advanced Healthcare Materials</i> , 2014, 3, 400-411.	3.9	73
14	pH-Responsive branched polymer nanoparticles. <i>Soft Matter</i> , 2008, 4, 985.	1.2	71
15	Long-acting injectable atovaquone nanomedicines for malaria prophylaxis. <i>Nature Communications</i> , 2018, 9, 315.	5.8	68
16	Polymer~Mediated Hierarchical and Reversible Emulsion Droplet Assembly. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2131-2134.	7.2	67
17	Systematic tuning of pore morphologies and pore volumes in macroporous materials by freezing. <i>Journal of Materials Chemistry</i> , 2009, 19, 5212.	6.7	65
18	A Highly Selective, One-Pot Multiple-Addition Convergent Synthesis of Polycarbonate Dendrimers. <i>Journal of the American Chemical Society</i> , 2000, 122, 11729-11730.	6.6	64

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19	Synthesis and Characterization of Shell Cross-Linked Micelles with Hydroxy-Functional Coronas: A Pragmatic Alternative to Dendrimers?. <i>Langmuir</i> , 2005, 21, 3808-3813.	1.6	57
20	Multicomponent Organic Nanoparticles for Fluorescence Studies in Biological Systems. <i>Advanced Functional Materials</i> , 2012, 22, 2469-2478.	7.8	56
21	Polymer Nanoparticles: Shape-Directed Monomer-to-Particle Synthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 1495-1501.	6.6	54
22	Synthesis of Water Soluble Hyperbranched Polyurethanes Using Selective Activation of AB ₂ Monomers. <i>Macromolecules</i> , 2004, 37, 9418-9430.	2.2	53
23	Direct Synthesis of Anisotropic Polymer Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9243-9247.	7.2	49
24	Dose prediction for repurposing nitazoxanide in SARS-CoV-2 treatment or chemoprophylaxis. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 2078-2088.	1.1	46
25	Controlled synthesis of calcium carbonate nanoparticles and stimuli-responsive multi-layered nanocapsules for oral drug delivery. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118866.	2.6	45
26	Selective Convergent Synthesis of Aliphatic Polyurethane Dendrimers. <i>Macromolecules</i> , 2003, 36, 9704-9706.	2.2	44
27	Accelerated oral nanomedicine discovery from miniaturized screening to clinical production exemplified by paediatric HIV nanotherapies. <i>Nature Communications</i> , 2016, 7, 13184.	5.8	44
28	Room Temperature Waterborne ATRP of n-Butyl Methacrylate in Homogeneous Alcoholic Media. <i>Macromolecules</i> , 2001, 34, 8600-8602.	2.2	43
29	Hyperbranched polydendrons: a new controlled macromolecular architecture with self-assembly in water and organic solvents. <i>Chemical Science</i> , 2014, 5, 1844-1853.	3.7	42
30	Inhibitory Effects of Commonly Used Excipients on P-Glycoprotein in Vitro. <i>Molecular Pharmaceutics</i> , 2018, 15, 4835-4842.	2.3	42
31	Structure-LCST relationships for end-functionalized water-soluble polymers: an "accelerated" approach to phase behaviour studies. <i>Chemical Communications</i> , 2007, , 2962-2964.	2.2	40
32	Randomised controlled trial of intravenous nafamostat mesylate in COVID pneumonitis: Phase 1b/2a experimental study to investigate safety, Pharmacokinetics and Pharmacodynamics. <i>EBioMedicine</i> , 2022, 76, 103856.	2.7	38
33	Mediation of in Vitro Cytochrome P450 Activity by Common Pharmaceutical Excipients. <i>Molecular Pharmaceutics</i> , 2013, 10, 2739-2748.	2.3	36
34	Synthesis and characterisation of new shell cross-linked micelles with amine-functional coronas. <i>European Polymer Journal</i> , 2006, 42, 1487-1498.	2.6	35
35	Semi-solid prodrug nanoparticles for long-acting delivery of water-soluble antiretroviral drugs within combination HIV therapies. <i>Nature Communications</i> , 2019, 10, 1413.	5.8	34
36	Controlling responsive emulsion properties via polymer design. <i>Chemical Communications</i> , 2009, , 3554.	2.2	33

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37	Branched copolymer-stabilised nanoemulsions as new candidate oral drug delivery systems. <i>RSC Advances</i> , 2018, 8, 12984-12991.	1.7	32
38	Hyperbranched polydendrons: a new nanomaterials platform with tuneable permeation through model gut epithelium. <i>Chemical Science</i> , 2015, 6, 326-334.	3.7	31
39	Nanoformulation strategies for the enhanced oral bioavailability of antiretroviral therapeutics. <i>Therapeutic Delivery</i> , 2015, 6, 469-490.	1.2	31
40	One-pot synthesis of methacrylic acid-ethylene oxide branched block and graft copolymers. <i>Journal of Materials Chemistry</i> , 2007, 17, 545-552.	6.7	28
41	Architecture-driven aqueous stability of hydrophobic, branched polymer nanoparticles prepared by rapid nanoprecipitation. <i>Soft Matter</i> , 2012, 8, 9816.	1.2	28
42	Use of a physiologically-based pharmacokinetic model to simulate artemether dose adjustment for overcoming the drug-drug interaction with efavirenz. <i>In Silico Pharmacology</i> , 2013, 1, 4.	1.8	26
43	In Silico Dose Prediction for Long-Acting Rilpivirine and Cabotegravir Administration to Children and Adolescents. <i>Clinical Pharmacokinetics</i> , 2018, 57, 255-266.	1.6	26
44	Investigation of the Experimental Factors Affecting the Trithiocarbonate-Mediated RAFT Polymerization of Methyl Acrylate. <i>Australian Journal of Chemistry</i> , 2007, 60, 772.	0.5	25
45	Synthesis and thermal studies of aliphatic polyurethane dendrimers: a geometric approach to the Flory-Fox equation for dendrimer glass transition temperature. <i>Soft Matter</i> , 2012, 8, 1096-1108.	1.2	23
46	Research Spotlight: Nanomedicines for HIV therapy. <i>Therapeutic Delivery</i> , 2013, 4, 153-156.	1.2	23
47	Optimization of the synthetic parameters of lipid polymer hybrid nanoparticles dual loaded with darunavir and ritonavir for the treatment of HIV. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119794.	2.6	22
48	Synthesis of dendritic polyamides using novel selective chemistry. <i>Polymer International</i> , 2000, 49, 1002-1006.	1.6	20
49	Facile synthesis of complex multi-component organic and organic-magnetic inorganic nanocomposite particles. <i>Journal of Materials Chemistry</i> , 2012, 22, 24744.	6.7	20
50	Towards a Maraviroc long-acting injectable nanoformulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 138, 92-98.	2.0	20
51	Nanomedicine: Not a case of "One size fits all". <i>Nano Today</i> , 2009, 4, 382-384.	6.2	18
52	Assessment of interactions of efavirenz solid drug nanoparticles with human immunological and haematological systems. <i>Journal of Nanobiotechnology</i> , 2018, 16, 22.	4.2	18
53	The first peripherally masked thiol dendrimers: a facile and highly efficient functionalization strategy of polyester dendrimers via one-pot xanthate deprotection/thiol-acrylate Michael addition reactions. <i>Chemical Communications</i> , 2014, 50, 6574-6577.	2.2	17
54	Towards a rational design of solid drug nanoparticles with optimised pharmacological properties. <i>Journal of Interdisciplinary Nanomedicine</i> , 2016, 1, 110-123.	3.6	17

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55	Improving maraviroc oral bioavailability by formation of solid drug nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 138, 30-36.	2.0	17
56	Redispersible nanosuspensions as a plausible oral delivery system for curcumin. <i>Food Hydrocolloids</i> , 2021, 121, 107005.	5.6	17
57	One-pot, single-component synthesis of functional emulsion-templated hybrid inorganic-organic polymer capsules. <i>Chemical Communications</i> , 2012, 48, 1592-1594.	2.2	16
58	Partial mitigation of gold nanoparticle interactions with human lymphocytes by surface functionalization with a "mixed matrix"™. <i>Nanomedicine</i> , 2014, 9, 2467-2479.	1.7	16
59	"One-pot"™ sequential deprotection/functionalisation of linear-dendritic hybrid polymers using a xanthate mediated thiol/Michael addition. <i>Polymer Chemistry</i> , 2015, 6, 573-582.	1.9	16
60	Impact of long-acting therapies on the global HIV epidemic. <i>Aids</i> , 2021, 35, S137-S143.	1.0	16
61	Synthesis of well-defined Locust Bean Gum-graft-copolymers using ambient aqueous atom transfer radical polymerisation. <i>Chemical Communications</i> , 2007, , 362-364.	2.2	15
62	High-throughput nanoprecipitation of the organic antimicrobial triclosan and enhancement of activity against <i>Escherichia coli</i> . <i>Journal of Materials Chemistry B</i> , 2013, 1, 4455.	2.9	15
63	Synthesis, nanoprecipitation and pH sensitivity of amphiphilic linear-dendritic hybrid polymers and hyperbranched-polydendrons containing tertiary amine functional dendrons. <i>Soft Matter</i> , 2015, 11, 7005-7015.	1.2	15
64	Augmented Inhibition of CYP3A4 in Human Primary Hepatocytes by Ritonavir Solid Drug Nanoparticles. <i>Molecular Pharmaceutics</i> , 2015, 12, 3556-3568.	2.3	15
65	Controlling drug release from non-aqueous environments: Moderating delivery from ocular silicone oil drug reservoirs to combat proliferative vitreoretinopathy. <i>Journal of Controlled Release</i> , 2016, 244, 41-51.	4.8	14
66	Critical considerations for targeting colorectal liver metastases with nanotechnology. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1588.	3.3	14
67	Insights into the internal structures of nanogels using a versatile asymmetric-flow field-flow fractionation method. <i>Nanoscale Advances</i> , 2020, 2, 4713-4721.	2.2	13
68	Synthesis and characterisation of polyamide dendrimers with systematically varying surface functionality. <i>Chemical Communications</i> , 2009, , 3095.	2.2	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. <i>Polymer Chemistry</i> , 2014, 5, 3608-3616.	1.9	12
70	The Application of Nanotechnology to Drug Delivery in Medicine. , 2015, , 173-223.		12
71	Intracellular delivery of nano-formulated antituberculosis drugs enhances bactericidal activity. <i>Journal of Interdisciplinary Nanomedicine</i> , 2017, 2, 146-156.	3.6	12
72	Recommendations for clinical translation of nanoparticle-enhanced radiotherapy. <i>British Journal of Radiology</i> , 2018, 91, 20180325.	1.0	12

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73	Hyperbranched polymers with step-growth chemistries from transfer-dominated branching radical telomerisation (TBRT) of divinyl monomers. <i>Polymer Chemistry</i> , 2020, 11, 7637-7649.	1.9	12
74	Scalable nanoprecipitation of niclosamide and <i>in vivo</i> demonstration of long-acting delivery after intramuscular injection. <i>Nanoscale</i> , 2021, 13, 6410-6416.	2.8	11
75	MADIX polymerization of vinyl acetate using ethyl acetate as a green solvent; near-complete monomer conversion with molecular weight control. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2427-2431.	2.5	10
76	Co-initiated hyperbranched-polydendron building blocks for the direct nanoprecipitation of dendron-directed patchy particles with heterogeneous surface functionality. <i>Polymer Chemistry</i> , 2018, 9, 1767-1771.	1.9	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. <i>Polymer Chemistry</i> , 2019, 10, 5103-5115.	1.9	10
78	Mucus-responsive functionalized emulsions: design, synthesis and study of novel branched polymers as functional emulsifiers. <i>RSC Advances</i> , 2020, 10, 30463-30475.	1.7	10
79	Dual-responsive degradable core-shell nanogels with tuneable aggregation behaviour. <i>RSC Advances</i> , 2022, 12, 2196-2206.	1.7	10
80	Synthesis and <i>in vivo</i> magnetic resonance imaging evaluation of biocompatible branched copolymer nanocontrast agents. <i>International Journal of Nanomedicine</i> , 2015, 10, 5895.	3.3	9
81	Flow cytometric analysis of the physical and protein-binding characteristics of solid drug nanoparticle suspensions. <i>Nanomedicine</i> , 2015, 10, 1407-1421.	1.7	9
82	Stable, polymer-directed and SPION-nucleated magnetic amphiphilic block copolymer nanoprecipitates with readily reversible assembly in magnetic fields. <i>Nanoscale</i> , 2016, 8, 7224-7231.	2.8	9
83	Evaluating the impact of systematic hydrophobic modification of model drugs on the control, stability and loading of lipid-based nanoparticles. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9874-9884.	2.9	9
84	Controlled synthesis of radiolabelled amine methacrylate water-soluble polymers with end-groups of varying hydrophobicity and studies of adsorption behaviour. <i>Polymer Chemistry</i> , 2012, 3, 154-161.	1.9	8
85	Multiple and Co-Nanoprecipitation Studies of Branched Hydrophobic Copolymers and A-B Amphiphilic Block Copolymers, Allowing Rapid Formation of Sterically Stabilized Nanoparticles in Aqueous Media. <i>Macromolecules</i> , 2015, 48, 1883-1893.	2.2	8
86	Role of highly branched, high molecular weight polymer structures in directing uniform polymer particle formation during nanoprecipitation. <i>Chemical Communications</i> , 2016, 52, 3915-3918.	2.2	8
87	Modulated release from implantable ocular silicone oil tamponade drug reservoirs. <i>Journal of Polymer Science Part A</i> , 2018, 56, 938-946.	2.5	8
88	Utilising ¹⁴ C-radiolabelled atom transfer radical polymerisation initiators. <i>Chemical Communications</i> , 2009, , 6406.	2.2	7
89	Monitoring Atom Transfer Radical Polymerisation using ¹⁴ C-radiolabelled initiators. <i>Polymer Chemistry</i> , 2011, 2, 581-588.	1.9	7
90	Simulating Intestinal Transporter and Enzyme Activity in a Physiologically Based Pharmacokinetic Model for Tenofovir Disoproxil Fumarate. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	7

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91	The emerging role of physiologically based pharmacokinetic modelling in solid drug nanoparticle translation. <i>Advanced Drug Delivery Reviews</i> , 2018, 131, 116-121.	6.6	7
92	Long-Acting Injectable Statins – Is It Time for a Paradigm Shift?. <i>Molecules</i> , 2019, 24, 2685.	1.7	7
93	Quantification of branching within high molecular weight polymers with polyester backbones formed by transfer-dominated branching radical telomerisation (TBRT). <i>RSC Advances</i> , 2021, 11, 24374-24380.	1.7	7
94	The synthesis and characterisation of poly(1,4-cyclopentenylene-5,6-ethylidene-2,3-disodium) triblock copolymer. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3963-3967.	1.7	6
95	The Application of Nanodispersions to Agriculture. <i>Outlooks on Pest Management</i> , 2010, 21, 190-192.	0.1	6
96	In situ xanthate deprotection to generate thiol chain transfer agents for conventional free radical linear and branched vinyl polymerization. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3963-3967.	2.5	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. <i>Polymer Chemistry</i> , 2015, 6, 7286-7296.	1.9	5
98	Model studies of the sequential and simultaneous statistical modification of dendritic functional groups and their implications within complex polymer architecture synthesis. <i>Polymer Chemistry</i> , 2017, 8, 1644-1653.	1.9	5
99	Lack of interaction of lopinavir solid drug nanoparticles with cells of the immune system. <i>Nanomedicine</i> , 2017, 12, 2043-2054.	1.7	5
100	Anhydrous nanoprecipitation for the preparation of nanodispersions of tenofovir disoproxil fumarate in oils as candidate long-acting injectable depot formulations. <i>Nanoscale Advances</i> , 2019, 1, 4301-4307.	2.2	5
101	Chasing COVID-19 chemotherapeutics without putting the cart before the horse. <i>British Journal of Clinical Pharmacology</i> , 2023, 89, 421-423.	1.1	5
102	Architectural control of polystyrene physical properties using branched anionic polymerization initiated at ambient temperature. <i>Journal of Polymer Science</i> , 2020, 58, 1426-1438.	2.0	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. <i>Trials</i> , 2021, 22, 3.	0.7	5
104	Impact of multi-vinyl taxogen dimensions on high molecular weight soluble polymer synthesis using transfer-dominated branching radical telomerisation. <i>Polymer Chemistry</i> , 2021, 12, 6472-6483.	1.9	5
105	Using pyrene to probe the effects of poloxamer stabilisers on internal lipid microenvironments in solid lipid nanoparticles. <i>Nanoscale Advances</i> , 2020, 2, 5572-5577.	2.2	5
106	Accessing new and scalable high molecular weight branched copolymer structures using transfer-dominated branching radical telomerisation (TBRT). <i>Polymer Chemistry</i> , 0, , .	1.9	5
107	Considerations for clinically-relevant nanomedicine therapies for chronic diseases. <i>Nanomedicine</i> , 2015, 10, 3103-3107.	1.7	4
108	Reactions of hydrophobic organic nanoparticle mixtures in water: nanoparticle-on-nanoparticle oxidative dye bleaching. <i>Green Chemistry</i> , 2013, 15, 1590.	4.6	3

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109	Emerging nanomedicine applications and manufacturing: progress and challenges. <i>Nanomedicine</i> , 2016, 11, 577-580.	1.7	3
110	Designing single trigger/dual-response release and degradation into amine-functional hyperbranched-polydendron nanoprecipitates. <i>Nanoscale Advances</i> , 2020, 2, 5468-5477.	2.2	3
111	Linear and branched polymer prodrugs of the water-soluble nucleoside reverse-transcriptase inhibitor emtricitabine as structural materials for long-acting implants. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4395-4404.	2.9	3
112	The potential value of nanomedicine and novel oral dosage forms in the treatment of HIV. <i>Nanomedicine</i> , 2018, 13, 1963-1965.	1.7	2
113	Interdisciplinary nanomedicine publications through interdisciplinary peer-review. <i>Journal of Interdisciplinary Nanomedicine</i> , 2016, 1, 4-8.	3.6	1
114	In vitro characterisation of solid drug nanoparticle compositions of efavirenz in a brain endothelium cell line. <i>Journal of Interdisciplinary Nanomedicine</i> , 2017, 2, 157-169.	3.6	0
115	Safety assessment of a new nanoemulsion-based drug-delivery system reveals unexpected, drug-free anticoagulant activity. <i>Nanomedicine</i> , 2020, 15, 1361-1373.	1.7	0