

# Rainer Haag

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

580  
papers

25,274  
citations

75  
h-index

135  
g-index

618  
ext. papers

28,135  
ext. citations

8  
avg, IF

7.4  
L-index

#	Paper	IF	Citations
580	Polymer therapeutics: concepts and applications. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1198-215	16.4	939
579	Stimuli-responsive polymeric nanocarriers for the controlled transport of active compounds: concepts and applications. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 866-84	18.5	873
578	Multivalency as a chemical organization and action principle. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10472-98	16.4	730
577	Dendritic polymers in biomedical applications: from potential to clinical use in diagnostics and therapy. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1329-34	16.4	560
576	Electron transport through thin organic films in metal--insulator--metal junctions based on self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5075-85	16.4	560
575	Dendritic polyglycerols for biomedical applications. <i>Advanced Materials</i> , <b>2010</b> , 22, 190-218	24	537
574	Supramolecular drug-delivery systems based on polymeric core-shell architectures. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 278-82	16.4	523
573	Protein interactions with polymer coatings and biomaterials. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8004-31	16.4	500
572	Distance Dependence of Electron Tunneling through Self-Assembled Monolayers Measured by Conducting Probe Atomic Force Microscopy: Unsaturated versus Saturated Molecular Junctions. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2813-2816	3.4	429
571	Multifunctional dendritic polymers in nanomedicine: opportunities and challenges. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 2824-48	58.5	349
570	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. <i>Chemical Reviews</i> , <b>2017</b> , 117, 1826-1914	68.1	333
569	Modern separation techniques for the efficient workup in organic synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 3964-4000	16.4	288
568	Dendritic polyglycerol: a new versatile biocompatible-material. <i>Reviews in Molecular Biotechnology</i> , <b>2002</b> , 90, 257-67		281
567	Micro- and nanogels with labile crosslinks - from synthesis to biomedical applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 1948-73	58.5	240
566	Self-assembled monolayers of dendritic polyglycerol derivatives on gold that resist the adsorption of proteins. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2831-8	4.8	239
565	Hyaluronic acid-shelled acid-activatable paclitaxel prodrug micelles effectively target and treat CD44-overexpressing human breast tumor xenografts in vivo. <i>Biomaterials</i> , <b>2016</b> , 84, 250-261	15.6	218
564	Dendritic polyglycerol sulfates as multivalent inhibitors of inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19679-84	11.5	218

563	Supramolecular aggregates of dendritic multishell architectures as universal nanocarriers. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1265-9	16.4	218
562	Electrical Breakdown of Aliphatic and Aromatic Self-Assembled Monolayers Used as Nanometer-Thick Organic Dielectrics. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7895-7906	16.4	207
561	Inhibition of influenza virus infection by multivalent sialic-acid-functionalized gold nanoparticles. <i>Small</i> , <b>2010</b> , 6, 2900-6	11	206
560	pH-responsive molecular nanocarriers based on dendritic core-shell architectures. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 4252-6	16.4	197
559	Nanoparticles for skin penetration enhancement--a comparison of a dendritic core-multishell-nanotransporter and solid lipid nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 71, 243-50	5.7	194
558	Controlled synthesis of cell-laden microgels by radical-free gelation in droplet microfluidics. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4983-9	16.4	186
557	An Approach to Glycerol Dendrimers and Pseudo-Dendritic Polyglycerols. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2954-2955	16.4	184
556	Mussel-inspired dendritic polymers as universal multifunctional coatings. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11650-5	16.4	170
555	Universal polymer coatings and their representative biomedical applications. <i>Materials Horizons</i> , <b>2015</b> , 2, 567-577	14.4	165
554	Degradable self-assembling dendrons for gene delivery: experimental and theoretical insights into the barriers to cellular uptake. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20288-300	16.4	156
553	Supramolecular Architectures of Dendritic Amphiphiles in Water. <i>Chemical Reviews</i> , <b>2016</b> , 116, 2079-10268.1		153
552	Multivalenz als chemisches Organisations- und Wirkprinzip. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 10622-10650.6		151
551	Dendritic nanocarriers based on hyperbranched polymers. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 4145-64	58.5	148
550	Highly fluorescent water-soluble polyglycerol-dendronized perylene bisimide dyes. <i>Chemical Communications</i> , <b>2010</b> , 46, 1884-6	5.8	141
549	Dendrimers and hyperbranched polymers as high-loading supports for organic synthesis. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 327-35	4.8	139
548	An Approach to CoreShell-Type Architectures in Hyperbranched Polyglycerols by Selective Chemical Differentiation. <i>Macromolecules</i> , <b>2000</b> , 33, 8158-8166	5.5	135
547	High-loading polyglycerol supported reagents for Mitsunobu- and acylation-reactions and other useful polyglycerol derivatives. <i>Molecular Diversity</i> , <b>2005</b> , 9, 305-16	3.1	129
546	A microgel construction kit for bioorthogonal encapsulation and pH-controlled release of living cells. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13538-43	16.4	128

545	Pathogen Inhibition by Multivalent Ligand Architectures. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8654-66	16.4	123
544	Effect of polymer brush architecture on antibiofouling properties. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4169-76	6.9	121
543	A facile approach for dual-responsive prodrug nanogels based on dendritic polyglycerols with minimal leaching. <i>Journal of Controlled Release</i> , <b>2014</b> , 174, 209-16	11.7	120
542	Surfactant free preparation of biodegradable dendritic polyglycerol nanogels by inverse nanoprecipitation for encapsulation and release of pharmaceutical biomacromolecules. <i>Journal of Controlled Release</i> , <b>2013</b> , 169, 289-95	11.7	119
541	Synthesis and characterization of glycerol dendrons, self-assembled monolayers on gold: a detailed study of their protein resistance. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1043-54	6.9	118
540	Dendritic polyglycerol sulfates as new heparin analogues and potent inhibitors of the complement system. <i>Bioconjugate Chemistry</i> , <b>2004</b> , 15, 162-7	6.3	116
539	A convergent approach to biocompatible polyglycerol "click" dendrons for the synthesis of modular core-shell architectures and their transport behavior. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 9202-14	4.8	115
538	Functional dendritic polymer architectures as stimuli-responsive nanocarriers. <i>Biochimie</i> , <b>2010</b> , 92, 1242-51	5.6	114
537	Hyperbranched PEI with various oligosaccharide architectures: synthesis, characterization, ATP complexation, and cellular uptake properties. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1114-24	6.9	109
536	A universal approach to crosslinked hierarchical polymer multilayers as stable and highly effective antifouling coatings. <i>Advanced Materials</i> , <b>2014</b> , 26, 2688-93, 2615	24	108
535	Structure-biocompatibility relationship of dendritic polyglycerol derivatives. <i>Biomaterials</i> , <b>2010</b> , 31, 4268-76	3.7	108
534	In vivo delivery of small interfering RNA to tumors and their vasculature by novel dendritic nanocarriers. <i>FASEB Journal</i> , <b>2010</b> , 24, 3122-34	0.9	106
533	Supramolecular polymers as surface coatings: rapid fabrication of healable superhydrophobic and slippery surfaces. <i>Advanced Materials</i> , <b>2014</b> , 26, 7358-64	24	103
532	Multivalency at Interfaces: Supramolecular Carbohydrate-Functionalized Graphene Derivatives for Bacterial Capture, Release, and Disinfection. <i>Nano Letters</i> , <b>2015</b> , 15, 6051-7	11.5	102
531	Development of efficient acid cleavable multifunctional prodrugs derived from dendritic polyglycerol with a poly(ethylene glycol) shell. <i>Journal of Controlled Release</i> , <b>2011</b> , 151, 295-301	11.7	101
530	Dendritic polyamines: simple access to new materials with defined treelike structures for application in nonviral gene delivery. <i>ChemBioChem</i> , <b>2004</b> , 5, 1081-7	3.8	98
529	Polyether based amphiphiles for delivery of active components. <i>Polymer</i> , <b>2012</b> , 53, 3053-3078	3.9	97
528	Influence of nanocarrier type and size on skin delivery of hydrophilic agents. <i>International Journal of Pharmaceutics</i> , <b>2009</b> , 377, 169-72	6.5	97

527	Atomic Fe-N Coupled Open-Mesoporous Carbon Nanofibers for Efficient and Bioadaptable Oxygen Electrode in Mg-Air Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802669	24	95
526	Inhibition of influenza virus activity by multivalent glycoarchitectures with matched sizes. <i>ChemBioChem</i> , <b>2011</b> , 12, 887-95	3.8	95
525	Preserving E-conjugation in covalently functionalized carbon nanotubes for optoelectronic applications. <i>Nature Communications</i> , <b>2017</b> , 8, 14281	17.4	93
524	Development of enzymatically cleavable prodrugs derived from dendritic polyglycerol. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 3725-8	2.9	92
523	Generation of Micrometer-Sized Patterns for Microanalytical Applications Using a Laser Direct-Write Method and Microcontact Printing. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4645-4652	7.8	91
522	Metal-Organic-Framework-Derived 2D Carbon Nanosheets for Localized Multiple Bacterial Eradication and Augmented Anti-infective Therapy. <i>Nano Letters</i> , <b>2019</b> , 19, 5885-5896	11.5	90
521	Biocompatible functionalized polyglycerol microgels with cell penetrating properties. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7540-5	16.4	89
520	Hyperbranched polyglycerols on the nanometer and micrometer scale. <i>Biomaterials</i> , <b>2011</b> , 32, 1311-6	15.6	89
519	Synthesis, Reductive Cleavage, and Cellular Interaction Studies of Biodegradable, Polyglycerol Nanogels. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 4133-4138	15.6	88
518	Modular synthesis of multivalent glycoarchitectures and their unique selectin binding behavior. <i>Chemical Communications</i> , <b>2008</b> , 5851-3	5.8	86
517	Water-soluble dendritic core-shell-type architectures based on polyglycerol for solubilization of hydrophobic drugs. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 4187-96	4.8	82
516	Charge-conversional and reduction-sensitive poly(vinyl alcohol) nanogels for enhanced cell uptake and efficient intracellular doxorubicin release. <i>Journal of Controlled Release</i> , <b>2015</b> , 205, 15-24	11.7	80
515	Development of pH-responsive core-shell nanocarriers for delivery of therapeutic and diagnostic agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 1030-4	2.9	79
514	Copolymers of Glycidol and Glycidyl Ethers: Design of Branched Polyether Polyols by Combination of Latent Cyclic AB <sub>2</sub> and ABR Monomers. <i>Macromolecules</i> , <b>2000</b> , 33, 7682-7692	5.5	79
513	Multivalent Interactions between 2D Nanomaterials and Biointerfaces. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706709	24	78
512	Protein Corona Formation on Colloidal Polymeric Nanoparticles and Polymeric Nanogels: Impact on Cellular Uptake, Toxicity, Immunogenicity, and Drug Release Properties. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1762-1771	6.9	76
511	pH-responsive micro- and nanocarrier systems. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 49-516.4	16.4	76
510	Biofunctional nanosystems based on dendritic polymers. <i>Journal of Controlled Release</i> , <b>2012</b> , 161, 484-951.7	11.7	76

509	Water-soluble pH-responsive dendritic core-shell nanocarriers for polar dyes based on poly(ethylene imine). <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 968-74	5.5	76
508	Multivalent Flexible Nanogels Exhibit Broad-Spectrum Antiviral Activity by Blocking Virus Entry. <i>ACS Nano</i> , <b>2018</b> , 12, 6429-6442	16.7	75
507	Multiaarm star nanocarriers containing a poly(ethylene imine) core and polylactide arms. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 5740-5749	2.5	75
506	A new family of nonionic dendritic amphiphiles displaying unexpected packing parameters in micellar assemblies. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11119-24	16.4	74
505	Water-Soluble Dendritic Architectures with Carbohydrate Shells for the Templatation and Stabilization of Catalytically Active Metal Nanoparticles. <i>Macromolecules</i> , <b>2005</b> , 38, 8308-8315	5.5	74
504	Syntheses and phase-transfer properties of dendritic nanocarriers that contain perfluorinated shell structures. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2822-30	4.8	74
503	Synthesis of dendritic polyglycerol anions and their efficiency toward L-selectin inhibition. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2502-11	6.9	73
502	Linear poly(methyl glycerol) and linear polyglycerol as potent protein and cell resistant alternatives to poly(ethylene glycol). <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 1992-2000	4.5	72
501	Chiral Hyperbranched Dendron Analogues. <i>Macromolecules</i> , <b>2000</b> , 33, 253-254	5.5	71
500	A dyadic sensitizer for dye solar cells with high energy-transfer efficiency in the device. <i>ChemPhysChem</i> , <b>2007</b> , 8, 1548-56	3.2	70
499	Penetration of normal, damaged and diseased skin--an in vitro study on dendritic core-multishell nanotransporters. <i>Journal of Controlled Release</i> , <b>2014</b> , 185, 45-50	11.7	69
498	Patterned Polymer Multilayers as Etch Resists. <i>Langmuir</i> , <b>1999</b> , 15, 6862-6867	4	68
497	Dendritic polyglycerols with oligoamine shells show low toxicity and high siRNA transfection efficiency in vitro. <i>Bioconjugate Chemistry</i> , <b>2010</b> , 21, 1744-52	6.3	67
496	Hyperbranched Polymers for the Formation and Stabilization of ZnO Nanoparticles. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6301-6309	9.6	67
495	Dendritic multishell architectures for drug and dye transport. <i>Journal of Controlled Release</i> , <b>2008</b> , 132, 289-94	11.7	67
494	Virus inhibition induced by polyvalent nanoparticles of different sizes. <i>Nanoscale</i> , <b>2014</b> , 6, 2353-60	7.7	66
493	Combination of Surface Charge and Size Controls the Cellular Uptake of Functionalized Graphene Sheets. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701837	15.6	66
492	Fluorescence imaging with multifunctional polyglycerol sulfates: novel polymeric near-IR probes targeting inflammation. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 2453-60	6.3	65

491	Study of single protein adsorption onto monoamino oligoglycerol derivatives: a structure-activity relationship. <i>Langmuir</i> , <b>2009</b> , 25, 5703-12	4	65
490	Surface Roughness Gradients Reveal Topography-Specific Mechanosensitive Responses in Human Mesenchymal Stem Cells. <i>Small</i> , <b>2020</b> , 16, e1905422	11	64
489	Mussel-Inspired Polymer-Based Universal Spray Coating for Surface Modification: Fast Fabrication of Antibacterial and Superhydrophobic Surface Coatings. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701254	4.6	64
488	Cross-linked hyperbranched polyglycerols as hosts for selective binding of guest molecules. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10574-80	16.4	64
487	Multivalent Peptide-Nanoparticle Conjugates for Influenza-Virus Inhibition. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5931-5936	16.4	63
486	Influences of opioids and nanoparticles on in vitro wound healing models. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 73, 34-42	5.7	63
485	The role of dimension in multivalent binding events: structure-activity relationship of dendritic polyglycerol sulfate binding to L-selectin in correlation with size and surface charge density. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 1088-98	5.5	62
484	Polyglycerol nanogels: highly functional scaffolds for biomedical applications. <i>Soft Matter</i> , <b>2010</b> , 6, 4968	3.6	62
483	Linear polysialoside outperforms dendritic analogs for inhibition of influenza virus infection in vitro and in vivo. <i>Biomaterials</i> , <b>2017</b> , 138, 22-34	15.6	61
482	Multivalent glycoconjugates as vaccines and potential drug candidates. <i>MedChemComm</i> , <b>2014</b> , 5, 862-873	3	61
481	Enhanced Permeability and Retention-like Extravasation of Nanoparticles from the Vasculature into Tuberculosis Granulomas in Zebrafish and Mouse Models. <i>ACS Nano</i> , <b>2018</b> , 12, 8646-8661	16.7	60
480	Functionalized nanographene sheets with high antiviral activity through synergistic electrostatic and hydrophobic interactions. <i>Nanoscale</i> , <b>2019</b> , 11, 15804-15809	7.7	60
479	DNA-controlled bivalent presentation of ligands for the estrogen receptor. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 8592-6	16.4	60
478	Size-dependent inhibition of herpesvirus cellular entry by polyvalent nanoarchitectures. <i>Nanoscale</i> , <b>2017</b> , 9, 3774-3783	7.7	59
477	Functionalized nanogels carrying an anticancer microRNA for glioblastoma therapy. <i>Journal of Controlled Release</i> , <b>2016</b> , 239, 159-68	11.7	58
476	Multivalent anchoring and cross-linking of mussel-inspired antifouling surface coatings. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3061-71	6.9	58
475	Cross-linked glycerol dendrimers and hyperbranched polymers as ionophoric, organic nanoparticles soluble in water and organic solvents. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8164-7	16.4	58
474	Polyglycerolsulfate functionalized gold nanorods as optoacoustic signal nanoamplifiers for in vivo bioimaging of rheumatoid arthritis. <i>Theranostics</i> , <b>2014</b> , 4, 629-41	12.1	58



473	Surface Roughness and Substrate Stiffness Synergize To Drive Cellular Mechanoresponse. <i>Nano Letters</i> , <b>2020</b> , 20, 748-757	11.5	58
472	Directed Graphene-Based Nanoplatfoms for Hyperthermia: Overcoming Multiple Drug Resistance. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11198-11202	16.4	57
471	Construction of Functional Coatings with Durable and Broad-Spectrum Antibacterial Potential Based on Mussel-Inspired Dendritic Polyglycerol and in Situ-Formed Copper Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35411-35418	9.5	57
470	Targeted delivery of dendritic polyglycerol-doxorubicin conjugates by scFv-SNAP fusion protein suppresses EGFR+ cancer cell growth. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2510-20	6.9	57
469	Surface-Independent Hierarchical Coatings with Superamphiphobic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 29117-29127	9.5	56
468	Functionalized Graphene as Extracellular Matrix Mimics: Toward Well-Defined 2D Nanomaterials for Multivalent Virus Interactions. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606477	15.6	55
467	Biocompatible fluorinated polyglycerols for droplet microfluidics as an alternative to PEG-based copolymer surfactants. <i>Lab on A Chip</i> , <b>2016</b> , 16, 65-9	7.2	55
466	Injectable degradable PVA microgels prepared by microfluidic technology for controlled osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , <b>2018</b> , 77, 28-37	10.8	55
465	An amphiphilic perylene imido diester for selective cellular imaging. <i>Bioconjugate Chemistry</i> , <b>2013</b> , 24, 153-8	6.3	55
464	Multispectral optoacoustic tomography of myocardial infarction. <i>Photoacoustics</i> , <b>2013</b> , 1, 3-8	9	55
463	Linear and Hyperbranched Polyglycerol Derivatives as Excellent Bioinert Glass Coating Materials. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, B501-B510	3.5	55
462	Glycine-terminated dendritic amphiphiles for nonviral gene delivery. <i>Biomacromolecules</i> , <b>2012</b> , 13, 3087-93	6.8	54
461	Functional Nanoparticles from Dendritic Precursors: Hierarchical Assembly in Miniemulsion. <i>Macromolecules</i> , <b>2009</b> , 42, 556-559	5.5	54
460	Material development for dye solar modules: results from an integrated approach. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2008</b> , 16, 489-501	6.8	54
459	Supramolecular Immobilization of a Perfluoro-Tagged Pd-Catalyst with Dendritic Architectures and Application in Suzuki Reactions. <i>Advanced Synthesis and Catalysis</i> , <b>2005</b> , 347, 1389-1394	5.6	54
458	Dendritic aliphatic polyethers as high-loading soluble supports for carbonyl compounds and parallel membrane separation techniques. <i>ACS Combinatorial Science</i> , <b>2002</b> , 4, 112-9		54
457	An Experimental Thermochemical and Theoretical Study of Triquinacene: Definitive Disproof of Its Neutral Homoaromaticity. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11130-11135	16.4	54
456	Tandem Coordination, Ring-Opening, Hyperbranched Polymerization for the Synthesis of Water-Soluble CoreShell Unimolecular Transporters. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 564-567	6.6	53



455	Photoresponsive crosslinked hyperbranched polyglycerols as smart nanocarriers for guest binding and controlled release. <i>Small</i> , <b>2009</b> , 5, 2199-204	11	53
454	Dendronized fluorosurfactant for highly stable water-in-fluorinated oil emulsions with minimal inter-droplet transfer of small molecules. <i>Nature Communications</i> , <b>2019</b> , 10, 4546	17.4	52
453	Microfluidic synthesis of monodisperse porous microspheres with size-tunable pores. <i>Soft Matter</i> , <b>2012</b> , 8, 10636	3.6	52
452	Size-dependant cellular uptake of dendritic polyglycerol. <i>Small</i> , <b>2011</b> , 7, 820-9	11	52
451	Size dependence of steric shielding and multivalency effects for globular binding inhibitors. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2572-9	16.4	51
450	Dendritic Polymers with a Core-Multishell Architecture: A Versatile Tool for the Stabilization of Nanoparticles. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2423-2425	9.6	51
449	Tribenzaceptalene Dianion and 4,7-Disubstituted Tribenzodihydroaceptalene Derivatives: Formation, Reactions, and Structural Properties of Potential Tribenzaceptalene Precursors. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 10474-10485	16.4	50
448	Highly Efficient Multivalent 2D Nanosystems for Inhibition of Orthopoxvirus Particles. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2922-2930	10.1	48
447	Controlled Covalent Functionalization of Thermally Reduced Graphene Oxide To Generate Defined Bifunctional 2D Nanomaterials. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2675-2679	16.4	47
446	Aggregation Phenomena of Host and Guest upon the Loading of Dendritic Core-Multishell Nanoparticles with Solvatochromic Dyes. <i>Macromolecules</i> , <b>2012</b> , 45, 9452-9459	5.5	47
445	A bifunctional nanocarrier based on amphiphilic hyperbranched polyglycerol derivatives. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 3569-3577	7.3	47
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443	Imine derivatives on Au(111): evidence for "inverted" thermal isomerization. <i>ACS Nano</i> , <b>2011</b> , 5, 2090-7	16.7	46
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41	Correlating Electron Transport and Molecular Structure in Organic Thin Films This work was supported by the Office of Naval Research, the Defense Advanced Research Project Agency, and the National Science Foundation ECS-97294053. R.E.H. thanks the National Institutes of Health for a postdoctoral fellowship, and R.H. thanks the Deutsche Forschungsgemeinschaft and the BASF	16.4	2
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