

Gunnar Westman

List of Publications by Year in descending order

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92
papers

3,841
citations

117625

34
h-index

133252

59
g-index

102
all docs

102
docs citations

102
times ranked

4621
citing authors

#	ARTICLE	IF	CITATIONS
1	Cationic surface functionalization of cellulose nanocrystals. <i>Soft Matter</i> , 2008, 4, 2238-2244.	2.7	494
2	C60 embedded in β -cyclodextrin: a water-soluble fullerene. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 604-606.	2.0	422
3	Light-Up Probes: Thiazole Orange-Conjugated Peptide Nucleic Acid for Detection of Target Nucleic Acid in Homogeneous Solution. <i>Analytical Biochemistry</i> , 2000, 281, 26-35.	2.4	242
4	Rheological properties of nanocellulose suspensions: effects of fibril/particle dimensions and surface characteristics. <i>Cellulose</i> , 2017, 24, 2499-2510.	4.9	146
5	Free-Probe Fluorescence of Light-up Probes. <i>Journal of the American Chemical Society</i> , 2001, 123, 803-809.	13.7	106
6	Groove-binding unsymmetrical cyanine dyes for staining of DNA: syntheses and characterization of the DNA-binding. <i>Nucleic Acids Research</i> , 2003, 31, 6227-6234.	14.5	93
7	A new minor groove binding asymmetric cyanine reporter dye for real-time PCR. <i>Nucleic Acids Research</i> , 2003, 31, 45e-45.	14.5	90
8	Electrospinning of cellulose nanofibers from ionic liquids: The effect of different cosolvents. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1901-1909.	2.6	77
9	Crystalline Nanocellulose – Preparation, Modification, and Properties. , 0, , .		76
10	Rapid and specific detection of PCR products using light-up probes. <i>Molecular and Cellular Probes</i> , 2000, 14, 321-328.	2.1	75
11	Electron Beam Irradiation of Cellulosic Materials – Opportunities and Limitations. <i>Materials</i> , 2013, 6, 1584-1598.	2.9	74
12	Investigation and Characterization of Lignin Precipitation in the LignoBoost Process. <i>Journal of Wood Chemistry and Technology</i> , 2014, 34, 77-97.	1.7	74
13	In situ synthesis of conductive polypyrrole on electrospun cellulose nanofibers: scaffold for neural tissue engineering. <i>Cellulose</i> , 2015, 22, 1459-1467.	4.9	66
14	Kraft pulp hornification: A closer look at the preventive effect gained by glucuronoxylan adsorption. <i>Carbohydrate Polymers</i> , 2010, 81, 226-233.	10.2	62
15	A gas phase container for C60; a β -cyclodextrin dimer. <i>Tetrahedron Letters</i> , 1995, 36, 597-600.	1.4	61
16	Enhanced Synthesis of Metal-Organic Frameworks on the Surface of Electrospun Cellulose Nanofibers. <i>Advanced Engineering Materials</i> , 2015, 17, 1282-1286.	3.5	59
17	Composition and structure of cell wall ulvans recovered from <i>Ulva</i> spp. along the Swedish west coast. <i>Carbohydrate Polymers</i> , 2020, 233, 115852.	10.2	58
18	Clusters of C60-fullerene in a water solution containing β -cyclodextrin; A photophysical study. <i>Synthetic Metals</i> , 1993, 56, 3252-3257.	3.9	54

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19	Surface treatment of cellulose nanocrystals (CNC): effects on dispersion rheology. <i>Cellulose</i> , 2018, 25, 331-345.	4.9	53
20	Influence of water on swelling and dissolution of cellulose in 1-ethyl-3-methylimidazolium acetate. <i>Carbohydrate Polymers</i> , 2014, 99, 438-446.	10.2	51
21	Syntheses and DNA-binding studies of a series of unsymmetrical cyanine dyes: structural influence on the degree of minor groove binding to natural DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2369-2384.	3.0	50
22	Diastereoselective nitrile oxide and nitron additions. <i>Tetrahedron</i> , 1990, 46, 2473-2482.	1.9	45
23	NMR and UV-VIS Investigation of water-soluble fullerene-60 ⁺ - β -cyclodextrin complex. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1097-1101.	0.9	45
24	Synthesis, antitumor evaluation and DNA binding studies of novel amidino-benzimidazolyl substituted derivatives of furyl-phenyl- and thienyl-phenyl-acrylates, naphthofurans and naphthothiophenes. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 2877-2890.	5.5	44
25	Remote Allylic Silyloxy Groups as Stereocontrol Elements in Intramolecular Oxymercurations of β -Hydroxyalkenes. <i>Journal of Organic Chemistry</i> , 1996, 61, 2109-2117.	3.2	43
26	Visible-Light-Promoted Photocatalytic Applications of Carbon Dots: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 3087-3109.	5.0	43
27	Host-guest chemistry of fullerenes; a water-soluble complex between C70 and β -cyclodextrin. <i>Tetrahedron Letters</i> , 1994, 35, 7103-7106.	1.4	42
28	Molecular characterization of hydrolyzed cationized nanocrystalline cellulose, cotton cellulose and softwood kraft pulp using high resolution 1D and 2D NMR. <i>Carbohydrate Polymers</i> , 2011, 85, 738-746.	10.2	42
29	Wet spinning of cellulose from ionic liquid solutions ⁺ viscometry and mechanical performance. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4542-4548.	2.6	42
30	Synthesis and DNA binding studies of a new asymmetric cyanine dye binding in the minor groove of [poly(dA-dT)] ₂ . <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 1035-1040.	3.0	41
31	Geometric uncertainties in voluntary deep inspiration breath hold radiotherapy for locally advanced lung cancer. <i>Radiotherapy and Oncology</i> , 2016, 118, 510-514.	0.6	41
32	Increased thermal stability of nanocellulose composites by functionalization of the sulfate groups on cellulose nanocrystals with azetidinium ions. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45963.	2.6	40
33	Solid-phase synthesis of asymmetric cyanine dyes. <i>Tetrahedron Letters</i> , 2001, 42, 3207-3210.	1.4	38
34	Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. <i>Carbohydrate Polymers</i> , 2018, 202, 280-287.	10.2	35
35	The reactions of aryl acrylates under Baylis-Hillman conditions. <i>Tetrahedron Letters</i> , 1996, 37, 1715-1718.	1.4	34
36	Regioselective nitration of phenols and anisols in microemulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 182, 321-327.	4.7	34

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37	Adsorption of cationized barley husk xylan on kraft pulp fibres: influence of degree of cationization on adsorption characteristics. <i>Cellulose</i> , 2009, 16, 1109-1121.	4.9	33
38	Sunlight promoted removal of toxic hexavalent chromium by cellulose derived photoactive carbon dots. <i>Chemosphere</i> , 2022, 287, 132287.	8.2	33
39	Thermodynamic characterization of the dimerization equilibrium of an asymmetric dye by spectral titration and chemometric analysis. <i>Talanta</i> , 2004, 62, 835-841.	5.5	32
40	Groove-binding unsymmetrical cyanine dyes for staining of DNA: dissociation rates in free solution and electrophoresis gels. <i>Nucleic Acids Research</i> , 2003, 31, 6235-6242.	14.5	30
41	Effect of methylimidazole on cellulose/ionic liquid solutions and regenerated material therefrom. <i>Journal of Materials Science</i> , 2014, 49, 3423-3433.	3.7	30
42	Cationization of cellulose by using <i>N</i> -oxiranylmethyl- <i>N</i> -methylmorpholinium chloride and 2-oxiranylpyridine as etherification agents. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1449-1456.	2.6	29
43	A revised solid-state NMR method to assess the crystallinity of cellulose. <i>Cellulose</i> , 2019, 26, 8993-9003.	4.9	26
44	Accumulation of FITC near <i>stratum corneum</i> visualizing epidermal distribution of a strong sensitizer using two-photon microscopy. <i>Contact Dermatitis</i> , 2009, 61, 91-100.	1.4	25
45	Nano-cellulosic materials: The impact of water on their dissolution in DMAc/LiCl. <i>Carbohydrate Polymers</i> , 2013, 98, 1565-1572.	10.2	23
46	Thermoplastic and Flexible Films from Arabinoxylan. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1443-1450.	4.4	23
47	On the effect of cyclodextrin on the Z/E-selectivity of Wittig Reactions with semistabilized ylides. <i>Tetrahedron</i> , 1993, 49, 483-488.	1.9	21
48	Stereoselective synthesis of tetrahydrofurans using intramolecular oxymercuration. <i>Tetrahedron Letters</i> , 1995, 36, 463-466.	1.4	21
49	A tetrameric copper(I) alkoxide with a π -tethered ligand: 2-allyl-6-methylphenoxocopper(I). <i>Journal of Organometallic Chemistry</i> , 2002, 649, 204-208.	1.8	19
50	Time-resolved electrophoretic analysis of mobility shifts for dissociating DNA ligands. <i>Electrophoresis</i> , 2005, 26, 524-532.	2.4	19
51	The molecular properties and carbohydrate content of lignins precipitated from black liquor. <i>Holzforschung</i> , 2015, 69, 143-152.	1.9	19
52	Musculoskeletal Modelling in Sports - Evaluation of Different Software Tools with Focus on Swimming. <i>Procedia Engineering</i> , 2016, 147, 281-287.	1.2	19
53	Bromination in microemulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 215, 51-54.	4.7	17
54	Synthesis and enzymatic hydrolysis of a diaryl benzyl ester model of a lignin-carbohydrate complex (LCC). <i>Holzforschung</i> , 2016, 70, 385-391.	1.9	17

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55	Electroosmotic dewatering of cellulose nanocrystals. <i>Cellulose</i> , 2018, 25, 2321-2329.	4.9	17
56	New coupling reagents for homogeneous esterification of cellulose. <i>Cellulose</i> , 2007, 14, 347-356.	4.9	16
57	Phenotype-based drug screening in primary ovarian carcinoma cultures identifies intracellular iron depletion as a promising strategy for cancer treatment. <i>Biochemical Pharmacology</i> , 2011, 82, 139-147.	4.4	16
58	Compounds based on 5-(perylene-3-ylethynyl)uracil scaffold: High activity against tick-borne encephalitis virus and non-specific activity against enterovirus A. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 93-103.	5.5	16
59	Stereoselective reductions with macrocyclic NADH models. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 3027-3040.	1.8	15
60	Composites with surface-grafted cellulose nanocrystals (CNC). <i>Journal of Materials Science</i> , 2019, 54, 3009-3022.	3.7	14
61	Screening of hydrogen bonds in modified cellulose acetates with alkyl chain substitutions. <i>Carbohydrate Polymers</i> , 2022, 285, 119188.	10.2	13
62	Regioselective cationization of cellulosic materials using an efficient solvent-minimizing spray-technique. <i>Cellulose</i> , 2012, 19, 1677-1688.	4.9	12
63	Branching of hemicelluloses through an azetidinium salt ring-opening reaction. <i>Carbohydrate Research</i> , 2016, 428, 23-30.	2.3	12
64	In silico and in vitro studies of the reduction of unsaturated α,β bonds of trans-2-hexenedioic acid and 6-amino-trans-2-hexenoic acid – Important steps towards biobased production of adipic acid. <i>PLoS ONE</i> , 2018, 13, e0193503.	2.5	12
65	Mechanistic characterization of a copper containing thiosemicarbazone with potent antitumor activity. <i>Oncotarget</i> , 2017, 8, 30217-30234.	1.8	12
66	Host-guest properties of NAD ⁺ /NADH models. <i>Tetrahedron</i> , 2001, 57, 8897-8902.	1.9	11
67	Lignin separation from kraft black liquor by combined ultrafiltration and precipitation: a study of solubility of lignin with different molecular properties. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 270-278.	0.7	11
68	Substituted (pyridinyl)benzoazole palladium complexes: Synthesis and application as Heck coupling catalysts. <i>Polyhedron</i> , 2007, 26, 5544-5552.	2.2	10
69	New features of arabinoxylan ethers revealed by using multivariate analysis. <i>Carbohydrate Polymers</i> , 2019, 204, 255-261.	10.2	10
70	Hybrid Metal-Organic Framework-Cellulose Materials Retaining High Porosity: ZIF-8@Cellulose Nanofibrils. <i>Inorganics</i> , 2021, 9, 84.	2.7	9
71	Comparing mono- and divalent DNA groove binding cyanine dyes – Binding geometries, dissociation rates, and fluorescence properties. <i>Biophysical Chemistry</i> , 2006, 122, 195-205.	2.8	8
72	Diepoxide treatment of softwood kraft pulp: influence on absorption properties of fibre networks. <i>Cellulose</i> , 2011, 18, 1365-1375.	4.9	8

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73	Solvation Behavior of Cellulose and Xylan in the MIM/EMIMAc Ionic Liquid Solvent System: Parameters for Small-Scale Solvation. <i>BioResources</i> , 2013, 9, .	1.0	8
74	New Indolyl Substrates for Chromogenic and Fluorogenic Detection of Esterase Activity in Solution. <i>Tetrahedron</i> , 2000, 56, 8939-8944.	1.9	7
75	Screening for phenotype selective activity in multidrug resistant cells identifies a novel tubulin active agent insensitive to common forms of cancer drug resistance. <i>BMC Cancer</i> , 2013, 13, 374.	2.6	7
76	Oxidation Level and Glycidyl Ether Structure Determine Thermal Processability and Thermomechanical Properties of Arabinoxylan-Derived Thermoplastics. <i>ACS Applied Bio Materials</i> , 2021, 4, 3133-3144.	4.6	7
77	Water-assisted extrusion and injection moulding of composites with surface-grafted cellulose nanocrystals – An upscaling study. <i>Composites Part B: Engineering</i> , 2021, 208, 108590.	12.0	7
78	Permeability of water and oleic acid in composite films of phase separated polypropylene and cellulose stearate blends. <i>Carbohydrate Polymers</i> , 2016, 152, 450-458.	10.2	6
79	Hydrophobization of arabinoxylan with n-butyl glycidyl ether yields stretchable thermoplastic materials. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 491-500.	7.5	6
80	Post-irradiation Diethyldithiocarbamate-inhibition of CuZn Superoxide Dismutase Reduces Clonogenic Survival of Chinese Hamster V-79 Cells. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1984, 45, 11-20.	1.0	5
81	Stereoselective intermolecular oxymercurations of allylic ethers. <i>Tetrahedron Letters</i> , 1997, 38, 2737-2740.	1.4	5
82	Thermal and Viscoelastic Properties of Cellulosic Gels with Different Ionic Liquids and Coagulation Agents. <i>BioResources</i> , 2013, 8, .	1.0	5
83	Side chains affect the melt processing and stretchability of arabinoxylan biomass-based thermoplastic films. <i>Chemosphere</i> , 2022, 294, 133618.	8.2	5
84	A secondary analysis of FDG spatio-temporal consistency in the randomized phase II PET-boost trial in stage IIâ€“III NSCLC. <i>Radiotherapy and Oncology</i> , 2018, 127, 259-266.	0.6	4
85	Hot-mould foaming of modified hemicelluloses and hydroxypropyl methylcellulose. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	4
86	Self-crosslinking of 2-hydroxypropyl-N-methylmorpholinium chloride cellulose fibres. <i>Cellulose</i> , 2011, 18, 575-583.	4.9	3
87	Molybdenum disulphideâ€”A traditional external lubricant that shows interesting interphase properties in pulpâ€“based composites. <i>Polymer Composites</i> , 2021, 42, 4884-4896.	4.6	3
88	UV Radiation of Cellulose Fibers and Acrylic Acid Modified Cellulose Fibers for Improved Stiffness in Paper. <i>BioResources</i> , 2015, 10, .	1.0	1
89	Electromyographic Analysis of the Swim Start - Bilateral Comparison of the Front-weighted and Rear-weighted Track Start from the OMEGA OSB11 Starting Block. , 2015, , .		1
90	Calcitonin and Mammary Carcinoma. <i>Acta Radiologica Oncology</i> , 1980, 19, 251-253.	0.5	0

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91	X-RAY STRUCTURE OF [3aR-[1(2S*,3R*,6Z,8S*),3aa,6a,7ab]]-1-[8-[[[t-BUTYL-DIPHENYLSILYL]OXY]-3-HYDROXY-2-METHYL-1-OXO-6-NONENYL]-HEXAHYDRO-8,8-DIMETHYL-3H-3a,6-METHANO-2,6-BENZISOTHAZOLE] Main Group Metal Chemistry, 2001, 24, .		
92	Enhanced Mass Spectrum of the 2:1 $\hat{1}^3$ -CD-C-60 complex. , 1996, , 171-174.		0