

Pieter Samyn

List of Publications by Year in descending order

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160
papers

3,052
citations

185998

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214527

47
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160
all docs

160
docs citations

160
times ranked

3085
citing authors

#	ARTICLE	IF	CITATIONS
1	LiNi _{0.5} Mn _{1.5} O ₄ (LNMO) as Co-free cathode for lithium ion batteries via solution-gel synthesis: Particle size and morphology investigation. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162175.	2.8	12
2	Physicochemical and thermal characterization of poly (3-hydroxybutyrate-co-4-hydroxybutyrate) films incorporating thyme essential oil for active packaging of white bread. <i>Food Control</i> , 2022, 133, 108688.	2.8	35
3	Nanocelluloses as skin biocompatible materials for skincare, cosmetics, and healthcare: Formulations, regulations, and emerging applications. <i>Carbohydrate Polymers</i> , 2022, 278, 118956.	5.1	60
4	Active coating for packaging papers with controlled thermal release of encapsulated plant oils. <i>Surfaces and Interfaces</i> , 2022, 32, 102106.	1.5	1
5	Polydopamine and Cellulose: Two Biomaterials with Excellent Compatibility and Applicability. <i>Polymer Reviews</i> , 2021, 61, 814-865.	5.3	25
6	Micromechanical and microstructural analysis of Fe-rich plasma slag-based inorganic polymers. <i>Cement and Concrete Composites</i> , 2021, 118, 103968.	4.6	6
7	A platform for functionalization of cellulose, chitin/chitosan, alginate with polydopamine: A review on fundamentals and technical applications. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 71-93.	3.6	49
8	Active Barrier Coating for Packaging Paper with Controlled Release of Sunflower Oils. <i>Molecules</i> , 2021, 26, 3561.	1.7	6
9	Fe-TiO ₂ /AC and Co-TiO ₂ /AC Composites: Novel Photocatalysts Prepared from Waste Streams for the Efficient Removal and Photocatalytic Degradation of Cibacron Yellow F-4G Dye. <i>Catalysts</i> , 2021, 11, 1137.	1.6	5
10	Biochar from raw and spent common ivy: Impact of preprocessing and pyrolysis temperature on biochar properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 159, 105294.	2.6	15
11	Extrusion and Injection Molding of Poly(3-Hydroxybutyrate-co-3-Hydroxyhexanoate) (PHBHHx): Influence of Processing Conditions on Mechanical Properties and Microstructure. <i>Polymers</i> , 2021, 13, 4012.	2.0	11
12	Nanocellulose-Based Materials for Water Treatment: Adsorption, Photocatalytic Degradation, Disinfection, Antifouling, and Nanofiltration. <i>Nanomaterials</i> , 2021, 11, 3008.	1.9	63
13	Plasma-Induced Fibrillation and Surface Functionalization of Cellulose Microfibrils. <i>Engineering Proceedings</i> , 2021, 11, .	0.4	0
14	Algae for Nanocellulose Production. <i>Nanotechnology in the Life Sciences</i> , 2021, , 293-343.	0.4	1
15	Fractionation and Homogenization of Recuperated Pulp Fibers from Brazilian Paper and Pulp Industry. , 2021, 13, .		0
16	Current Alternatives for In-Can Preservation of Aqueous Paints: A Review. , 2021, 7, .		1
17	Novel processing of polyhydroxybutyrate with micro- to nanofibrillated cellulose and effect of fiber morphology on crystallization behaviour of composites. <i>EXPRESS Polymer Letters</i> , 2020, 14, 115-133.	1.1	12
18	Radiological and leaching assessment of an ettringite-based mortar from ladle slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 128, 105954.	4.6	24

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19	Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. <i>Nanoscale</i> , 2020, 12, 22845-22890.	2.8	108
20	Compression Molding of Polyhydroxybutyrate Nano-Composite Films as Coating on Paper Substrates. <i>Materials Proceedings</i> , 2020, 2, 31.	0.2	1
21	Engineering the Cellulose Fiber Interface in a Polymer Composite by Mussel-Inspired Adhesive Nanoparticles with Intrinsic Stress-Sensitive Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28819-28830.	4.0	12
22	Morphology, Rheology and Crystallization in Relation to the Viscosity Ratio of Polystyrene/Polypropylene Polymer Blends. <i>Materials</i> , 2020, 13, 926.	1.3	24
23	Improvement of a new acoustic emission analysis technique to determine the activated carbon saturation level: A comparative study. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103794.	3.3	4
24	Monitoring Variations in Thermal Curing of Nanoparticle Coatings through Confocal Raman Microscopy and Principal Component Analysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900651.	0.8	1
25	Effect of NaOH content on hydration, mineralogy, porosity and strength in alkali/sulfate-activated binders from ground granulated blast furnace slag and phosphogypsum. <i>Cement and Concrete Research</i> , 2020, 132, 106054.	4.6	83
26	Self-assembly of microsystem components with micrometer gluing pads through capillary forces. <i>Journal of Manufacturing Processes</i> , 2020, 53, 376-387.	2.8	3
27	Melt-Processing of Biopolymer Composites with Nanocellulose Additives. , 2020, , 28-36.		0
28	Design of Cellulose Interfaces through Self-Assembly of Adhesive Peptides with Intrinsic Stress Sensitive Properties. , 2020, 69, .		0
29	Surface Chemistry of Oil-Filled Organic Nanoparticle Coated Papers Analyzed Using Micro-Raman Mapping. <i>Applied Spectroscopy</i> , 2019, 73, 000370281880486.	1.2	3
30	X-ray absorption as an alternative method to determine the exhausting degree of activated carbon layers in water treatment system for medical services. <i>Talanta</i> , 2019, 205, 120058.	2.9	7
31	Fenton-Mediated Biodegradation of Chlorendic Acid “ A Highly Chlorinated Organic Pollutant ” By Fungi Isolated From a Polluted Site. <i>Frontiers in Microbiology</i> , 2019, 10, 1892.	1.5	12
32	Numerical prediction of the mean residence time of solid materials in a pilot-scale rotary kiln. <i>Powder Technology</i> , 2019, 354, 392-401.	2.1	13
33	Radiological and non-radiological leaching assessment of alkali-activated materials containing ground granulated blast furnace slag and phosphogypsum. <i>Science of the Total Environment</i> , 2019, 660, 1098-1107.	3.9	18
34	Ethylene Vinyl Alcohol Copolymer (EVOH) as a Functional Barrier against Surrogate Components Migrating from Paperboard. <i>Journal of Chemistry</i> , 2019, 2019, 1-7.	0.9	5
35	The effect of gamma radiation on the mechanical and microstructural properties of Fe-rich inorganic polymers. <i>Journal of Nuclear Materials</i> , 2019, 521, 126-136.	1.3	11
36	Confining acrylate-benzophenone copolymers into adhesive micropads by photochemical crosslinking. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 377, 80-91.	2.0	5

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37	Charge-Discharge Characteristics of Textile Energy Storage Devices Having Different PEDOT:PSS Ratios and Conductive Yarns Configuration. <i>Polymers</i> , 2019, 11, 345.	2.0	20
38	Cellulose Nanofibers: Fabrication and Surface Functionalization Techniques. , 2019, , 1-41.		2
39	Dewetting and photochemical crosslinking of adhesive pads onto lithographically patterned surfaces. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47321.	1.3	3
40	Microwave assisted and conventional pyrolysis of MDF â€“ Characterization of the produced biochars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 138, 218-230.	2.6	52
41	Native Crystalline Polysaccharide Nanofibers: Processing and Properties. , 2019, , 287-321.		1
42	Cellulose Nanofibers: Fabrication and Surface Functionalization Techniques. , 2019, , 409-449.		21
43	Nanoparticle Structures with (Un-)Hydrogenated Castor Oil as Hydrophobic Paper Coating. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3639-3653.	0.9	1
44	Review: nanoparticles and nanostructured materials in papermaking. <i>Journal of Materials Science</i> , 2018, 53, 146-184.	1.7	104
45	Effects of atmospheric plasma treatment on adhesion and tribology of aromatic thermoplastic polymers. <i>Polymer Engineering and Science</i> , 2018, 58, E93.	1.5	20
46	Native Crystalline Polysaccharide Nanofibers: Processing and Properties. , 2018, , 1-36.		4
47	Adhesion and sliding tribological properties of polyolefins treated by diffuse coplanar surface barrier discharges. <i>EXPRESS Polymer Letters</i> , 2018, 12, 972-985.	1.1	4
48	The Sycamore Maple Bacterial Culture Collection From a TNT Polluted Site Shows Novel Plant-Growth Promoting and Explosives Degrading Bacteria. <i>Frontiers in Plant Science</i> , 2018, 9, 1134.	1.7	13
49	Design of interfaces with lithographically patterned adhesive pads for gluing at the microscale. <i>International Journal of Adhesion and Adhesives</i> , 2018, 85, 88-99.	1.4	0
50	Raman Microscopy for Classification and Chemical Surface Mapping of Barrier Coatings on Paper with Oil-Filled Organic Nanoparticles. <i>Coatings</i> , 2018, 8, 154.	1.2	0
51	Alkali-activated materials for radionuclide immobilisation and the effect of precursor composition on Cs/Sr retention. <i>Journal of Nuclear Materials</i> , 2018, 510, 575-584.	1.3	12
52	Engineered nanomaterials for papermaking industry. , 2018, , 245-277.		8
53	Reciprocating sliding of polyester textile fabric composites along different fabric orientations. <i>Journal of Composite Materials</i> , 2017, 51, 221-240.	1.2	7
54	Temperature Effects on Friction and Wear of Thermoset Polyester Fabric Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1003-1016.	1.9	12

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55	Lateral mapping of poly(styrene-co-maleimide) nanoparticle coatings on paper by confocal Raman microscopy. <i>Vibrational Spectroscopy</i> , 2017, 88, 27-39.	1.2	4
56	Review of recent research on flexible multifunctional nanopapers. <i>Nanoscale</i> , 2017, 9, 15181-15205.	2.8	126
57	Influence of synthesis conditions on thermal release of palm oil as liquid core filled in polymeric nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 1973-1986.	2.0	1
58	Synthesis of Polyhydroxybutyrate Particles with Micro-to-Nanosized Structures and Application as Protective Coating for Packaging Papers. <i>Nanomaterials</i> , 2017, 7, 5.	1.9	15
59	Specular gloss versus surface topography for oil-filled nanoparticle coatings on paper. <i>Color Research and Application</i> , 2016, 41, 596-610.	0.8	2
60	Tribological properties and thermomechanical analysis of unsaturated polyester fabric composite in oscillating line-contact sliding. <i>Tribology International</i> , 2016, 99, 127-139.	3.0	13
61	Rheological behaviour of oil-filled polymer nanoparticles in aqueous dispersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 499, 31-45.	2.3	6
62	Thermal release of vegetable oils loaded in hydrophobic polymer nanoparticles. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 56-71.	1.0	4
63	Rheology of fibrillated cellulose suspensions after surface modification by organic nanoparticle deposits. <i>Journal of Materials Science</i> , 2016, 51, 9830-9848.	1.7	6
64	Effect of homogenization (microfluidization) process parameters in mechanical production of micro- and nanofibrillated cellulose on its rheological and morphological properties. <i>Cellulose</i> , 2016, 23, 1221-1238.	2.4	81
65	Tuning thermal release kinetics of soy oil from organic nanoparticles using variable synthesis conditions. <i>Particuology</i> , 2016, 26, 54-65.	2.0	3
66	Reaction efficiency and retention of poly(styrene-co-maleimide) nanoparticles deposited on fibrillated cellulose surfaces. <i>Carbohydrate Polymers</i> , 2016, 141, 244-252.	5.1	10
67	Relation between optical non-contact profilometry and AFM roughness parameters on coated papers with oil-filled nanoparticles. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 82, 75-93.	2.5	16
68	Bio-Based Coatings for Paper Applications. <i>Coatings</i> , 2015, 5, 887-930.	1.2	223
69	Kaolinite Nanocomposite Platelets Synthesized by Intercalation and Imidization of Poly(styrene-co-maleic anhydride). <i>Materials</i> , 2015, 8, 4363-4388.	1.3	13
70	Rheological Properties and Processing of Polymer Blends with Micro- and Nanofibrillated Cellulose. , 2015, , 259-291.		7
71	Synthesis of imidized nanoparticles containing soy oil under various reaction conditions. <i>European Polymer Journal</i> , 2015, 66, 78-90.	2.6	7
72	Hybrid palm-oil/styrene-maleimide nanoparticles synthesized in aqueous dispersion under different conditions. <i>Journal of Microencapsulation</i> , 2015, 32, 336-348.	1.2	10

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73	Mechanism for Tuning the Hydrophobicity of Microfibrillated Cellulose Films by Controlled Thermal Release of Encapsulated Wax. <i>Materials</i> , 2014, 7, 7196-7216.	1.3	13
74	Morphologies and Thermal Variability of Patterned Polymer Films with Poly(styrene-co-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.0	7
75	Fluorescent sensibility of microarrays through functionalized adhesive polydiacetylene vesicles. <i>Sensors and Actuators A: Physical</i> , 2014, 214, 45-57.	2.0	3
76	Novel production method for in-situ hydrophobization of a microfibrillated cellulose network. <i>Materials Letters</i> , 2014, 120, 196-199.	1.3	6
77	Performance of organic nanoparticle coatings for hydrophobization of hardwood surfaces. <i>Journal of Coatings Technology Research</i> , 2014, 11, 461-471.	1.2	15
78	Thermo-analytical study on transitions in styrene- ϵ -maleic anhydride copolymers with low- and high-molecular weights. <i>Thermochimica Acta</i> , 2014, 580, 28-37.	1.2	6
79	Colorimetric sensing properties of catechol-functional polymerized vesicles in aqueous solution and at solid surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 242-254.	2.3	11
80	The effect of temperature and drawing ratio on the mechanical properties of polypropylene monofilaments. , 2014, , .		2
81	Corrosion Protection of Aluminum by Hydrophobization Using Nanoparticle Polymer Coatings Containing Plant Oil. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	6
82	Wetting and hydrophobic modification of cellulose surfaces for paper applications. <i>Journal of Materials Science</i> , 2013, 48, 6455-6498.	1.7	157
83	Hydrophobic waterborne coating for cellulose containing hybrid organic nanoparticle pigments with vegetable oils. <i>Cellulose</i> , 2013, 20, 2625-2646.	2.4	15
84	Insights in the molecular structure of low- and high-molecular weight poly(styrene-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	1.8	23
85	Gloss, hydrophobicity and surface texture of papers with organic nanoparticle coatings. <i>Nordic Pulp and Paper Research Journal</i> , 2013, 28, 28-41.	0.3	2
86	Quality and Statistical Classification of Brazilian Vegetable Oils Using Mid-Infrared and Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 552-565.	1.2	33
87	Quality of Brazilian vegetable oils evaluated by (modulated) differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1353-1365.	2.0	33
88	Incorporating different vegetable oils into an aqueous dispersion of hybrid organic nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	25
89	Metastable Patterning of Plasma Nanocomposite Films by Incorporating Cellulose Nanowhiskers. <i>Langmuir</i> , 2012, 28, 1427-1438.	1.6	22
90	Synthesis and characterization of imidized poly(styrene- ϵ -maleic anhydride) nanoparticles in stable aqueous dispersion. <i>Polymers for Advanced Technologies</i> , 2012, 23, 311-325.	1.6	37

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91	How Thermal Curing of an Organic Paper Coating Changes Topography, Chemistry, and Wettability. Langmuir, 2011, 27, 8509-8521.	1.6	20
92	Plasma deposition of polymer composite films incorporating nanocellulose whiskers. EPJ Applied Physics, 2011, 56, 24015.	0.3	7
93	Creating water-repellent and super-hydrophobic cellulose substrates by deposition of organic nanoparticles. Materials Letters, 2011, 65, 1781-1784.	1.3	47
94	Surface-Attached, Polymerized Vesicles Exposing Adhesive Peptide Functionalities. ACS Symposium Series, 2011, , 225-248.	0.5	0
95	Application of polymer nanoparticle coating for tuning the hydrophobicity of cellulosic substrates. Journal of Coatings Technology Research, 2011, 8, 363-373.	1.2	17
96	Paper coatings with multi-scale roughness evaluated at different sampling sizes. Applied Surface Science, 2011, 257, 5613-5625.	3.1	29
97	Role of internal additives in the friction and wear of carbonâ€fiberâ€reinforced polyimide. Journal of Applied Polymer Science, 2010, 116, 1146-1156.	1.3	16
98	Modifications of paper and paperboard surfaces with a nanostructured polymer coating. Progress in Organic Coatings, 2010, 69, 442-454.	1.9	51
99	Evaluation of morphology and deposits on worn polyimide/graphite composite surfaces by contact-mode AFM. Wear, 2010, 270, 57-72.	1.5	9
100	Micro- to nanoscale surface morphology and friction response of tribological polyimide surfaces. Applied Surface Science, 2010, 256, 3394-3408.	3.1	26
101	Polymerizable Biomimetic Vesicles with Controlled Local Presentation of Adhesive Functional DOPA Groups. Langmuir, 2010, 26, 8573-8581.	1.6	27
102	TRIBOPHYSICAL INTERPRETATION OF POLYMER SLIDING MECHANISMS. , 2009, , 38-73.		1
103	SCALING EFFECTS IN TRIBOTESTING OF POLYMERS. , 2009, , 74-107.		0
104	Thermochemical sliding interactions of short carbon fiber polyimide composites at high pv-conditions. Materials Chemistry and Physics, 2009, 115, 185-195.	2.0	37
105	Reciprocative sliding friction and wear properties of electrical discharge machined ZrO_2 -based composites. Lubrication Science, 2009, 21, 378-396.	0.9	2
106	Influence of Internal Lubricants (PTFE and Silicon Oil) in Short Carbon Fibre-Reinforced Polyimide Composites on Performance Properties. Tribology Letters, 2009, 36, 135-146.	1.2	26
107	Self-lubricating and self-protecting properties of polymer composites for wear and friction applications. Polymer Composites, 2009, 30, 932-940.	2.3	9
108	Tribological properties of PTFE-filled thermoplastic polyimide at high load, velocity, and temperature. Polymer Composites, 2009, 30, 1631-1646.	2.3	41

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109	Frictional stability of pure and internally lubricated polyamides on a meso-scale tribotester. Industrial Lubrication and Tribology, 2009, 61, 100-110.	0.6	0
110	Self-Healing of a Soft Primer Coating Caused by Plasticization during Sliding against UHMWPE. , 2009, , 260-261.		0
111	Experimental extrapolation model for friction and wear of polymers on different testing scales. International Journal of Mechanical Sciences, 2008, 50, 1390-1403.	3.6	19
112	On the Repeatability of Friction and Wear Tests for Polyimides in a Hertzian Line Contact. Experimental Mechanics, 2008, 48, 233-246.	1.1	10
113	Tribochemical reactions on polyimide sliding surfaces evaluated with Raman spectroscopy and atomic force microscopy. Surface and Interface Analysis, 2008, 40, 853-857.	0.8	6
114	Calculation and significance of the maximum polymer surface temperature T^* in reciprocating cylinder-plate sliding. Polymer Engineering and Science, 2008, 48, 774-785.	1.5	21
115	The lubricity of graphite flake inclusions in sintered polyimides affected by chemical reactions at high temperatures. Carbon, 2008, 46, 1072-1084.	5.4	29
116	The sliding behaviour of sintered and thermoplastic polyimides investigated by thermal and Raman spectroscopic measurements. Wear, 2008, 264, 869-876.	1.5	22
117	The effect of processing method on dry sliding performance of polyimides at high load/high velocity conditions. European Polymer Journal, 2008, 44, 716-732.	2.6	9
118	On the efficiency of internal lubricants for polymers under different sliding conditions. Journal of Vinyl and Additive Technology, 2008, 14, 126-135.	1.8	4
119	Design of a tribotester for evaluation of polymer components under static and dynamic sliding conditions. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2007, 221, 661-674.	1.0	6
120	Atomic Force Microscopy of Sintered and Thermoplastic Polyimide Surfaces after Macroscopic Wear Tests. Materials Science Forum, 2007, 561-565, 2469-2472.	0.3	0
121	Online Wear Monitoring of Polymer Matrix Composites. Materials Science Forum, 2007, 561-565, 635-638.	0.3	1
122	Frictional Behavior of Glass Fiber Reinforced Polyester under Different Loads. Materials Science Forum, 2007, 561-565, 639-642.	0.3	0
123	Acoustic Emission as Analyzing Tool for Wear Mechanisms of Composite Materials. Materials Science Forum, 2007, 561-565, 2193-2196.	0.3	0
124	A Combination of Mathematical Morphology and Thermal Analysis of Wear Debris Explaining Polymer Sliding Mechanisms. Materials Science Forum, 2007, 561-565, 2237-2240.	0.3	1
125	A Relation between Laboratory and Full-Scale Testing of Polyester/Polyester Composites under Static and Dynamic Load. Materials Science Forum, 2007, 561-565, 725-728.	0.3	0
126	Friction and Wear Mechanisms of Sintered and Thermoplastic Polyimides under Adhesive Sliding. Macromolecular Materials and Engineering, 2007, 292, 523-556.	1.7	57

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127	Friction, wear and transfer of pure and internally lubricated cast polyamides at various testing scales. <i>Wear</i> , 2007, 262, 1433-1449.	1.5	54
128	Wear transitions and stability of polyoxymethylene homopolymer in highly loaded applications compared to small-scale testing. <i>Tribology International</i> , 2007, 40, 819-833.	3.0	28
129	Fast characterization of carbon/epoxy rings for use in the ball-joints of the Maeslant storm surge barrier. <i>Composite Structures</i> , 2007, 78, 359-367.	3.1	1
130	Effect of test scale on the friction properties of pure and internal-lubricated cast polyamides at running-in. <i>Polymer Testing</i> , 2007, 26, 660-675.	2.3	21
131	Characterization of composites for use in the ball-joints of the Maeslant storm surge barrier. <i>Polymer Composites</i> , 2007, 28, 470-478.	2.3	4
132	Thermal and spectroscopic analysis of worn polyoxymethylene surfaces and wear debris explaining degradation and polymerisation mechanisms. <i>Journal of Polymer Research</i> , 2007, 14, 411-422.	1.2	12
133	Global analysis and constructional aspects in the redesign of bearing elements for a movable storm surge barrier. <i>Engineering Structures</i> , 2007, 29, 2673-2691.	2.6	4
134	Full-scale analysis of deformation and stress distribution for constrained composite bearing elements under compressive yielding conditions. <i>Materials & Design</i> , 2007, 28, 2450-2470.	5.1	4
135	Friction induced conformational changes on large-scale and small-scale polyester sliding surfaces. <i>Surface and Interface Analysis</i> , 2006, 38, 868-872.	0.8	6
136	Wear behavior of carbon fiber-reinforced poly(phenylene sulfide). <i>Polymer Composites</i> , 2006, 27, 92-98.	2.3	23
137	Softening and melting mechanisms of polyamides interfering with sliding stability under adhesive conditions. <i>Polymer</i> , 2006, 47, 5050-5065.	1.8	29
138	Deformation of reinforced polymer bearing elements on full-scale compressive strength and creep tests under yielding conditions. <i>Polymer Testing</i> , 2006, 25, 230-245.	2.3	7
139	Large-scale tests on friction and wear of engineering polymers for material selection in highly loaded sliding systems. <i>Materials & Design</i> , 2006, 27, 535-555.	5.1	26
140	On the SEM features of glass/polyester composite system subjected to dry sliding wear. <i>Wear</i> , 2006, 261, 703-714.	1.5	41
141	Large-scale friction and wear tests on a hybrid UHMWPE-pad/primer coating combination used as bearing element in an extremely high-loaded ball-joint. <i>Tribology International</i> , 2006, 39, 796-811.	3.0	19
142	Friction, wear and material transfer of sintered polyimides sliding against various steel and diamond-like carbon coated surfaces. <i>Tribology International</i> , 2006, 39, 575-589.	3.0	28
143	Postmortem Raman Spectroscopy Explaining Friction and Wear Behavior of Sintered Polyimide at High Temperature. <i>Journal of Materials Engineering and Performance</i> , 2006, 15, 750-757.	1.2	23
144	Tribophysical phenomena on sliding surfaces of polyester composites evaluated by spectroscopic and thermal analysis. <i>Tribology Letters</i> , 2006, 24, 229-235.	1.2	3

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145	Fracture Assessment of Carbon Fibre/Epoxy Reinforcing Rings through a Combination of Full-Scale Testing, Small-Scale Testing and Stress Modeling. Applied Composite Materials, 2006, 13, 57-85.	1.3	8
146	Thermal transitions in polyimide transfer under sliding against steel, investigated by Raman spectroscopy and thermal analysis. Journal of Applied Polymer Science, 2006, 101, 1407-1425.	1.3	18
147	Large-Scale Evaluation of Constrained Bearing Elements Made of Thermosetting Polyester Resin and Polyester Fabric Reinforcement. Journal of Tribology, 2006, 128, 681-696.	1.0	5
148	Influence of Re-adhesion on the Wear and Friction of Glass Fibreâ€“Reinforced Polyester Composites. Journal of Adhesion, 2006, 82, 1033-1060.	1.8	6
149	Large-scale specimen testing on friction and wear of pure and internally lubricated cast polyamides. TriboTest Journal: Tribology and Lubrication in Practice, 2006, 12, 237-256.	0.7	3
150	Sliding behaviour of pure polyester and polyester-PTFE filled bulk composites in overload conditions. Polymer Testing, 2005, 24, 588-603.	2.3	50
151	Friction and wear of acetal: A matter of scale. Wear, 2005, 259, 697-702.	1.5	24
152	Friction of polyoxymethylene homopolymer in highly loaded applications extrapolated from small-scale testing. Tribology Letters, 2005, 19, 177-189.	1.2	24
153	Determination of Friction and Wear of Engineering Polymers by Means of Large-Scale Specimen Testing. Materials Science Forum, 2005, 475-479, 1077-1082.	0.3	2
154	Characterisation of polyimides under high-temperature sliding. Materials Letters, 2005, 59, 2850-2857.	1.3	17
155	Orientation and Degradation of Polymer Sliding Surfaces Evaluated by Raman Spectroscopy. , 2005, , .		1
156	Friction and Thermal Effects of Engineering Plastics Sliding Against Steel and DLN-Coated Counterfaces. Tribology Letters, 2004, 17, 269-288.	1.2	14
157	Shrinkage behavior after the heat setting of biaxially stretched poly(ethylene 2,6-naphthalate) films and bottles. Journal of Applied Polymer Science, 2003, 87, 1462-1473.	1.3	9
158	The tribological behaviour of engineering plastics during sliding friction investigated with small-scale specimens. Wear, 2002, 253, 673-688.	1.5	99
159	Natural Rubber Composites for Paper Coating Applications. , 0, , .		5
160	Atomic Force Microscopy of Sintered and Thermoplastic Polyimide Surfaces after Macroscopic Wear Tests. Materials Science Forum, 0, , 2469-2472.	0.3	1