

Nikolaos E Zafeiropoulos

List of Publications by Year in descending order

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67
papers

3,360
citations

159585

30
h-index

144013

57
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68
all docs

68
docs citations

68
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the effect of acetylation and propionylation surface treatments on natural fibres. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1110-1118.	7.6	483
2	Engineering and characterisation of the interface in flax fibre/polypropylene composite materials. Part I. Development and investigation of surface treatments. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1083-1093.	7.6	290
3	Synthesis and Characterization of Thermosensitive PNIPAM Microgels Covered with Superparamagnetic Fe_3O_4 Nanoparticles. Langmuir, 2007, 23, 10280-10285.	3.5	157
4	A study of transcrystallinity and its effect on the interface in flax fibre reinforced composite materials. Composites Part A: Applied Science and Manufacturing, 2001, 32, 525-543.	7.6	150
5	A Facile Approach to Fabrication of ZnO/TiO_2 Hollow Spheres. Chemistry of Materials, 2009, 21, 5343-5348.	6.7	137
6	Nanostructured Thermosetting Systems by Modification with Epoxidized Styrene-Butadiene Star Block Copolymers. Effect of Epoxidation Degree. Macromolecules, 2006, 39, 2254-2261.	4.8	136
7	Engineering and characterisation of the interface in flax fibre/polypropylene composite materials. Part II. The effect of surface treatments on the interface. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1185-1190.	7.6	114
8	Polystyrene-ZnO Composite Particles with Controlled Morphology. Chemistry of Materials, 2007, 19, 1845-1852.	6.7	97
9	Curing Behavior and Final Properties of Nanostructured Thermosetting Systems Modified with Epoxidized Styrene-Butadiene Linear Diblock Copolymers. Macromolecular Chemistry and Physics, 2007, 208, 2281-2292.	2.2	92
10	A study of the effect of surface treatments on the tensile strength of flax fibres: Part II. Application of Weibull statistics. Composites Part A: Applied Science and Manufacturing, 2007, 38, 629-638.	7.6	88
11	Synthesis of Novel Tantalum Oxide Sub-micrometer Hollow Spheres with Tailored Shell Thickness. Langmuir, 2008, 24, 1013-1018.	3.5	88
12	Title is missing!. Journal of Materials Science, 2003, 38, 3903-3914.	3.7	86
13	Development of biodegradable composites with treated and compatibilized lignocellulosic fibers. Journal of Applied Polymer Science, 2006, 100, 4703-4710.	2.6	83
14	Switchable Photoluminescence of CdTe Nanocrystals by Temperature-Responsive Microgels. Langmuir, 2008, 24, 9820-9824.	3.5	81
15	Novel Organo-Functional Titanium-oxo-cluster-Based Hybrid Materials with Enhanced Thermomechanical and Thermal Properties. Macromolecules, 2005, 38, 6068-6078.	4.8	69
16	Functionalization of iron oxide magnetic nanoparticles with poly(methyl methacrylate) brushes via grafting-from atom transfer radical polymerization. Journal of Polymer Science Part A, 2007, 45, 925-932.	2.3	65
17	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. Composites Science and Technology, 2018, 156, 158-165.	7.8	55
18	The Study of Cavitation in HDPE Using Time Resolved Synchrotron X-ray Scattering During Tensile Deformation. Macromolecular Symposia, 2006, 236, 241-248.	0.7	52

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19	Influence of Anion Exchange in Self-Assembling of Polymeric Ionic Liquid Block Copolymers. <i>Macromolecules</i> , 2011, 44, 4936-4941.	4.8	50
20	Selective localization of multi-wall carbon nanotubes in homopolymer blends and a diblock copolymer. Rheological orientation studies of the final nanocomposites. <i>Polymer</i> , 2012, 53, 4438-4447.	3.8	50
21	A study of the effect of surface treatments on the tensile strength of flax fibres: Part I. Application of Gaussian statistics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 621-628.	7.6	49
22	Temperature sensitive hybrid microgels loaded with ZnO nanoparticles. <i>Journal of Materials Chemistry</i> , 2008, 18, 2581.	6.7	49
23	Highly ordered arrays of magnetic nanoparticles prepared via block copolymer assembly. <i>Journal of Materials Chemistry</i> , 2010, 20, 7734.	6.7	45
24	A Step-Wise Approach for Dual Nanoparticle Patterning via Block Copolymer Self-Assembly. <i>Advanced Functional Materials</i> , 2013, 23, 483-490.	14.9	45
25	The use of synchrotron X-ray scattering coupled with in situ mechanical testing for studying deformation and structural change in isotactic polypropylene. <i>Colloid and Polymer Science</i> , 2004, 282, 854-866.	2.1	42
26	Nano-Level Mixing of ZnO into Poly(methyl methacrylate). <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1925-1932.	2.2	35
27	Self-Assembling Nanomaterials using Magnetic Nanoparticles Modified with Polystyrene Brushes. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2361-2365.	3.9	33
28	Fabrication of hollow titania microspheres with tailored shell thickness. <i>Colloid and Polymer Science</i> , 2008, 286, 593-601.	2.1	32
29	A Study on Reaction-Induced Miscibility of Poly(trimethylene terephthalate)/Polycarbonate Blends. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1569-1578.	2.6	32
30	Generation of core/shell iron oxide magnetic nanoparticles with polystyrene brushes by atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4744-4750.	2.3	31
31	Inclusion of Quercetin in Gold Nanoparticles Decorated with Supramolecular Hosts Amplifies Its Tumor Targeting Properties. <i>ACS Applied Bio Materials</i> , 2019, 2, 2715-2725.	4.6	30
32	Reinforcement of polystyrene by covalently bonded oxo-titanium clusters. <i>Progress in Solid State Chemistry</i> , 2005, 33, 127-135.	7.2	29
33	Tailored Growth of In(OH) ₃ Shell on Functionalized Polystyrene Beads. <i>Langmuir</i> , 2010, 26, 526-532.	3.5	28
34	Donor-specific individuality of red blood cell performance during storage is partly a function of serum uric acid levels. <i>Transfusion</i> , 2018, 58, 34-40.	1.6	27
35	Microfocus X-Ray Scattering Scanning Microscopy for Polymer Applications. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1547-1551.	3.9	26
36	Block Copolymer Concentration Gradient and Solvent Effects on Nanostructuring of Thin Epoxy Coatings Modified with Epoxidized Styrene-Butadiene-Styrene Block Copolymers. <i>Macromolecules</i> , 2012, 45, 1483-1491.	4.8	24

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37	A Study of the Effect of Acetylation and Propionylation on the Interface of Natural Fibre Biodegradable Composites. <i>Advanced Composites Letters</i> , 2005, 14, 096369350501400.	1.3	23
38	Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. <i>Polymer</i> , 2017, 131, 1-9.	3.8	23
39	Printed Single-Wall Carbon Nanotube-Based Joule Heating Devices Integrated as Functional Laminae in Advanced Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39880-39893.	8.0	23
40	Template-Assisted Fabrication of Magnetically Responsive Hollow Titania Capsules. <i>Langmuir</i> , 2010, 26, 17649-17655.	3.5	21
41	In situ Investigation of Structural Changes during Deformation and Fracture of Polymers by Synchrotron SAXS and WAXS. <i>Advanced Engineering Materials</i> , 2009, 11, 502-506.	3.5	19
42	A Novel Approach for Mixing ZnO Nanoparticles into Poly(ethyl methacrylate). <i>Macromolecular Rapid Communications</i> , 2010, 31, 405-410.	3.9	19
43	Nanoparticle directed domain orientation in thin films of asymmetric block copolymers. <i>Colloid and Polymer Science</i> , 2014, 292, 2249-2260.	2.1	18
44	Development and Characterization of High Performance Shape Memory Alloy Coatings for Structural Aerospace Applications. <i>Materials</i> , 2018, 11, 832.	2.9	18
45	On the use of single fibre composites testing to characterise the interface in natural fibre composites. <i>Composite Interfaces</i> , 2007, 14, 807-820.	2.3	17
46	Three-Dimensional Colloidal Crystal Arrays Exhibiting Stop Band in Near-Infrared Region. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16389-16394.	3.1	17
47	Investigation of the Relationship between Hydrogen Bonds and Macroscopic Properties in Hybrid Core-Shell $\text{Fe}_2\text{O}_3/\text{P}(\text{NIPAM-AA})$ Microgels. <i>Langmuir</i> , 2010, 26, 7101-7106.	3.5	17
48	Synthesis of a Novel Chitosan/Basil Oil Blend and Development of Novel Low Density Poly Ethylene/Chitosan/Basil Oil Active Packaging Films Following a Melt-Extrusion Process for Enhancing Chicken Breast Fillets Shelf-Life. <i>Molecules</i> , 2021, 26, 1585.	3.8	15
49	In situ synchrotron microbeam analysis of the stiffness of transcrystallinity in aramid fiber reinforced nylon 66 composites. <i>Composites Science and Technology</i> , 2006, 66, 2009-2015.	7.8	13
50	Synthesis and chemical modification of magnetic nanoparticles covalently bound to polystyrene- SiCl_2 -poly(2-vinylpyridine). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1668-1675.	2.1	13
51	Characterisation of LDPE residual matrix deposited on glass fibres by a dissolution/precipitation recycling process. <i>Composites Part A: Applied Science and Manufacturing</i> , 1999, 30, 831-838.	7.6	12
52	Polystyrene/calcium phosphate nanocomposites: Morphology, mechanical, and dielectric properties. <i>Polymer Engineering and Science</i> , 2012, 52, 689-699.	3.1	12
53	The Relationship between Craze Structure and Molecular Weight in Polystyrene as Revealed by μ SAXS Experiments. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1689-1694.	3.9	10
54	Osteogenic differentiation of bone marrow mesenchymal stem cells on chitosan/gelatin scaffolds: gene expression profile and mechanical analysis. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 064101.	3.3	10

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55	Nanoclay and Polystyrene Type Efficiency on the Development of Polystyrene/Montmorillonite/Oregano Oil Antioxidant Active Packaging Nanocomposite Films. Applied Sciences (Switzerland), 2021, 11, 9364.	2.5	10
56	Immiscible polydiene blocks in linear copolymer and terpolymer sequences. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1238-1246.	2.1	9
57	High-Throughput Screening of the Influence of Thermal Treatment on the Mechanical Properties of Semicrystalline Polymers: A Case Study for iPP. Macromolecular Rapid Communications, 2004, 25, 355-359.	3.9	8
58	Structural and ordering behavior of lamellar polystyrene- <i>b</i> -polybutadiene- <i>b</i> -polystyrene triblock copolymer containing layered silicates. Journal of Applied Polymer Science, 2008, 110, 3624-3637.	2.6	8
59	Alternating Gyroid Network Structure in an ABC Miktoarm Terpolymer Comprised of Polystyrene and Two Polydienes. Nanomaterials, 2020, 10, 1497.	4.1	8
60	An Investigation of the Effect of Processing Conditions on the Interface of Flax/Polypropylene Composites. Advanced Composites Letters, 2001, 10, 096369350101000.	1.3	7
61	The Effect of Transcrystallinity on the Interface of Green Flax/Polypropylene Composite Materials. Advanced Composites Letters, 2001, 10, 096369350101000.	1.3	6
62	Self-assembled thermoset materials by modification with poly(styrene)-block-poly(2-vinylpyridine). Journal of Materials Science, 2012, 47, 4348-4353.	3.7	6
63	Fast curing versus conventional resins – degradation due to hygrothermal and UV exposure. EXPRESS Polymer Letters, 2020, 14, 401-415.	2.1	6
64	A Study of the Effect of Surface Treatments on the Thermal Stability of Flax Fibres. Advanced Composites Letters, 2000, 9, 096369350000900.	1.3	5
65	An investigation of sPS/epoxy blends by means of x-ray scattering techniques. Macromolecular Symposia, 2003, 198, 345-354.	0.7	3
66	Segregation of Maghemite Nanoparticles within Symmetric Diblock Copolymer and Triblock Terpolymer Patterns under Solvent Vapor Annealing. Materials, 2020, 13, 1286.	2.9	3
67	The Application of Weibull Statistics on Fragmentation Data. Advanced Composites Letters, 2002, 11, 096369350201100.	1.3	1