

Katia Sparnacci

List of Publications by Year in descending order

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123
papers

2,469
citations

159585

30
h-index

276875

41
g-index

124
all docs

124
docs citations

124
times ranked

2741
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid thermal processing of self-assembling block copolymer thin films. <i>Nanotechnology</i> , 2013, 24, 315601.	2.6	72
2	Ultrathin Random Copolymer-Grafted Layers for Block Copolymer Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10944-10951.	8.0	71
3	Cationic PMMA Nanoparticles Bind and Deliver Antisense Oligoribonucleotides Allowing Restoration of Dystrophin Expression in the mdx Mouse. <i>Molecular Therapy</i> , 2009, 17, 820-827.	8.2	70
4	Fine Tuning of Lithographic Masks through Thin Films of PS- <i>b</i> -PMMA with Different Molar Mass by Rapid Thermal Processing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7180-7188.	8.0	64
5	Controlled Radical Polymerization of Styrene with Phosphoryl- and (Thiophosphoryl)dithioformates as RAFT Agents. <i>Macromolecules</i> , 2001, 34, 7269-7275.	4.8	59
6	Hybrid nanocomposites based on polystyrene and a reactive organophilic clay. <i>Journal of Materials Science</i> , 1998, 33, 2883-2888.	3.7	57
7	Ordering dynamics in symmetric PS- <i>b</i> -PMMA diblock copolymer thin films during rapid thermal processing. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6655-6664.	5.5	54
8	PTFE~Polystyrene Core~Shell Nanospheres and Nanocomposites. <i>Macromolecules</i> , 2003, 36, 4360-4367.	4.8	50
9	Dystrophin restoration in skeletal, heart and skin arrector pili smooth muscle of mdx mice by ZM2 NP~AON complexes. <i>Gene Therapy</i> , 2010, 17, 432-438.	4.5	49
10	DNA prime and protein boost immunization with innovative polymeric cationic core-shell nanoparticles elicits broad immune responses and strongly enhance cellular responses of HIV-1 tat DNA vaccination. <i>Vaccine</i> , 2006, 24, 5655-5669.	3.8	46
11	Functional Polymeric Nano/Microparticles for Surface Adsorption and Delivery of Protein and DNA Vaccines. <i>Current Drug Delivery</i> , 2008, 5, 230-242.	1.6	44
12	Measuring the size and density of nanoparticles by centrifugal sedimentation and flotation. <i>Analytical Methods</i> , 2018, 10, 1725-1732.	2.7	44
13	On the Thermal Stability of PS- <i>b</i> -PMMA Block and P(S- <i>r</i> -MMA) Random Copolymers for Nanopatterning Applications. <i>Macromolecules</i> , 2013, 46, 8224-8234.	4.8	43
14	Flash grafting of functional random copolymers for surface neutralization. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4909-4917.	5.5	43
15	New Ti-IMAC magnetic polymeric nanoparticles for phosphopeptide enrichment from complex real samples. <i>Talanta</i> , 2018, 178, 274-281.	5.5	42
16	Direct ESR Detection of Free Radicals in the RAFT Polymerization of Styrene. <i>Macromolecules</i> , 2003, 36, 736-740.	4.8	39
17	Novel biocompatible anionic polymeric microspheres for the delivery of the HIV-1 Tat protein for vaccine application. <i>Vaccine</i> , 2004, 22, 2910-2924.	3.8	39
18	Induction of humoral and enhanced cellular immune responses by novel core~shell nanosphere- and microsphere-based vaccine formulations following systemic and mucosal administration. <i>Vaccine</i> , 2009, 27, 3605-3615.	3.8	39

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19	Bessel-like photonic nanojets from core-shell sub-wavelength spheres. <i>Optics Letters</i> , 2014, 39, 3989.	3.3	39
20	PTFE-Based Core-Soft Shell Nanospheres and Soft Matrix Nanocomposites. <i>Macromolecules</i> , 2009, 42, 3518-3524.	4.8	37
21	Self-cleaning properties in engineered sensors for dopamine electroanalytical detection. <i>Analyst</i> , The, 2015, 140, 1486-1494.	3.5	36
22	Control of Doping Level in Semiconductors via Self-Limited Grafting of Phosphorus End-Terminated Polymers. <i>ACS Nano</i> , 2018, 12, 178-186.	14.6	35
23	A New Facile Synthesis of Tertiary Dithioesters. <i>Journal of Organic Chemistry</i> , 2002, 67, 7911-7914.	3.2	34
24	Preparation and Characterization of Innovative Protein-coated Poly(Methylmethacrylate) Core-shell Nanoparticles for Vaccine Purposes. <i>Pharmaceutical Research</i> , 2007, 24, 1870-1882.	3.5	34
25	Patterning of polymer brushes made easy using titanium dioxide: direct and remote photocatalytic lithography. <i>Chemical Communications</i> , 2015, 51, 7313-7316.	4.1	34
26	Fabrication of flexible silicon nanowires by self-assembled metal assisted chemical etching for surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2016, 6, 93649-93659.	3.6	34
27	Core-shell microspheres by dispersion polymerization as drug delivery systems. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1364-1369.	2.2	33
28	Comparison of novel delivery systems for antisense peptide nucleic acids. <i>Journal of Controlled Release</i> , 2005, 109, 24-36.	9.9	33
29	Size scaling of mesoporous silica membranes produced by nanosphere mediated laser ablation. <i>Nanotechnology</i> , 2012, 23, 485305.	2.6	33
30	Influence of the long-range ordering of gold-coated Si nanowires on SERS. <i>Scientific Reports</i> , 2018, 8, 11305.	3.3	33
31	PTFE-PMMA core-shell colloidal particles as building blocks for self-assembled opals: synthesis, properties and optical response. <i>Polymer International</i> , 2012, 61, 1294-1301.	3.1	32
32	Thermal and mechanical properties of PES/PTFE composites and nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3624-3633.	2.6	31
33	Thermally induced self-assembly of cylindrical nanodomains in low molecular weight PS- <i>b</i> -PMMA thin films. <i>Nanotechnology</i> , 2014, 25, 045301.	2.6	31
34	Characterization of ultra-thin polymeric films by Gas chromatography-Mass spectrometry hyphenated to thermogravimetry. <i>Journal of Chromatography A</i> , 2014, 1368, 204-210.	3.7	31
35	Uniformly sized molecularly imprinted polymers (MIPs) for 17β -estradiol. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1532-1538.	2.2	29
36	Evidence of Cybotactic Order in the Nematic Phase of a Main-Chain Liquid Crystal Polymer with Bent-Core Repeat Unit. <i>ACS Macro Letters</i> , 2014, 3, 91-95.	4.8	29

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37	Scaling of correlation length in lamellae forming PS- <i>b</i> -PMMA thin films upon high temperature rapid thermal treatments. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8618-8624.	5.5	29
38	Micellar-type complexes of tailor-made synthetic block copolymers containing the HIV-1 tat DNA for vaccine application. <i>Vaccine</i> , 2002, 20, 2303-2317.	3.8	28
39	Thermal Stability of Functional P(S- <i>r</i> -MMA) Random Copolymers for Nanolithographic Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3920-3930.	8.0	28
40	Immunization with low doses of HIV-1 tat DNA delivered by novel cationic block copolymers induces CTL responses against Tat. <i>Vaccine</i> , 2003, 21, 1103-1111.	3.8	27
41	A Multidisciplinary Approach to the Use of Pyridinyl Dithioesters and Their N-Oxides as CTAs in the RAFT Polymerization of Styrene. Not the Chronicle of a Failure Foretold. <i>Macromolecules</i> , 2005, 38, 7610-7618.	4.8	26
42	Depth Profiling and Melting of Nanoparticles in Secondary Ion Mass Spectrometry (SIMS). <i>Journal of Physical Chemistry C</i> , 2013, 117, 16042-16052.	3.1	26
43	Evolution of lateral ordering in symmetric block copolymer thin films upon rapid thermal processing. <i>Nanotechnology</i> , 2014, 25, 275601.	2.6	26
44	Diblock and triblock functional copolymers by controlled radical polymerization. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1237-1244.	2.3	24
45	PMMA-based core-shell nanoparticles with various PTFE cores. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2928-2937.	2.3	24
46	Core-shell microspheres by dispersion polymerization as promising delivery systems for proteins. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1557-1574.	3.5	23
47	Functional fluorescent nonporous silica nanoparticles as carriers for Pt(IV) anticancer prodrugs. <i>Journal of Inorganic Biochemistry</i> , 2015, 151, 132-142.	3.5	22
48	Enhanced Lateral Ordering in Cylinder Forming PS- <i>b</i> -PMMA Block Copolymers Exploiting the Entrapped Solvent. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8280-8288.	8.0	22
49	Development of an enrichment method for endogenous phosphopeptide characterization in human serum. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1177-1185.	3.7	22
50	Hierarchical Order in Dewetted Block Copolymer Thin Films on Chemically Patterned Surfaces. <i>ACS Nano</i> , 2018, 12, 7076-7085.	14.6	22
51	Biodistribution and Molecular Studies on Orally Administered Nanoparticle-AON Complexes Encapsulated with Alginate Aiming at Inducing Dystrophin Rescue in Mice. <i>BioMed Research International</i> , 2013, 2013, 1-13.	1.9	21
52	High temperature surface neutralization process with random copolymers for block copolymer self-assembly. <i>Polymer International</i> , 2017, 66, 459-467.	3.1	21
53	Determining the Thickness and Completeness of the Shell of Polymer Core-shell Nanoparticles by X-ray Photoelectron Spectroscopy, Secondary Ion Mass Spectrometry, and Transmission Scanning Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29765-29775.	3.1	21
54	Effect of Trapped Solvent on the Interface between PS- <i>b</i> -PMMA Thin Films and P(S- <i>r</i> -MMA) Brush Layers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7777-7787.	8.0	21

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55	Complex associates of plasmid DNA and a novel class of block copolymers with PEG and cationic segments as new vectors for gene delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 209-228.	3.5	19
56	Persistent Dystrophin Protein Restoration 90 Days after a Course of Intraperitoneally Administered Naked α^2 OMePS AON and ZM2 NP-AON Complexes in mdx Mice. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-8.	3.0	19
57	Micrometer-Scale Ordering of Silicon-Containing Block Copolymer Thin Films via High-Temperature Thermal Treatments. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9897-9908.	8.0	19
58	Effect of the Density of Reactive Sites in P(S- <i>r</i> -MMA) Film during Al ₂ O ₃ Growth by Sequential Infiltration Synthesis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900503.	3.7	19
59	Measuring the relative concentration of particle populations using differential centrifugal sedimentation. <i>Analytical Methods</i> , 2018, 10, 2647-2657.	2.7	18
60	Doping of silicon by phosphorus end-terminated polymers: drive-in and activation of dopants. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10229-10237.	5.5	17
61	TGA-GC-MS quantitative analysis of phosphorus-end capped functional polymers in bulk and ultrathin films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 238-245.	5.5	16
62	On the multiple crystallization behavior of PTFE in PMMA/PTFE nanocomposites from core-shell nanoparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 548-554.	2.1	15
63	Neutral wetting brush layers for block copolymer thin films using homopolymer blends processed at high temperatures. <i>Nanotechnology</i> , 2015, 26, 415603.	2.6	15
64	Effect of Entrapped Solvent on the Evolution of Lateral Order in Self-Assembled P(S- <i>r</i> -MMA)/PS- <i>b</i> -PMMA Systems with Different Thicknesses. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31215-31223.	8.0	15
65	Thermal Degradation in Ultrathin Films Outperforms Dose Control of n-Type Polymeric Dopants for Silicon. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1807-1816.	4.3	15
66	Core-shell functional nanospheres for oligonucleotide delivery. II. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1110-1117.	2.3	14
67	Sulfonates-PMMA nanoparticles conjugates: A versatile system for multimodal application. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6640-6647.	3.0	14
68	A Multi-Optical Collector of Sunlight Employing Luminescent Materials and Photonic Nanostructures. <i>Advanced Optical Materials</i> , 2016, 4, 147-155.	7.3	14
69	Toward Lateral Length Standards at the Nanoscale Based on Diblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15685-15697.	8.0	14
70	Preparation, Properties, and Self-Assembly Behavior of PTFE-Based Core-Shell Nanospheres. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-15.	2.7	12
71	Core-shell functional nanospheres for oligonucleotide delivery. III. Stealth nanospheres. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3347-3355.	2.3	11
72	An ESR Approach to the Estimation of the Rate Constants of the Addition and Fragmentation Processes Involved in the RAFT Polymerization of Styrene. <i>Helvetica Chimica Acta</i> , 2006, 89, 2103-2118.	1.6	11

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73	Two-dimensional non-close-packed arrays of nanoparticles via core-shell nanospheres and reactive ion etching. <i>Polymers for Advanced Technologies</i> , 2012, 23, 558-564.	3.2	11
74	Evidence of Mechanochemical Control in Grafting to Reactions of Hydroxy-Terminated Statistical Copolymers. <i>Macromolecules</i> , 2021, 54, 499-508.	4.8	11
75	Poly(methylmetacrylate) (PMMA) core-shell nanospheres act as efficient pharmacophores for the antiproliferative $[PtCl_3(NH_3)]^-$ complex by forming ionic couples. <i>Inorganica Chimica Acta</i> , 2009, 362, 4099-4109.	2.4	10
76	Priming with a very low dose of DNA complexed with cationic block copolymers followed by protein boost elicits broad and long-lasting antigen-specific humoral and cellular responses in mice. <i>Vaccine</i> , 2009, 27, 4498-4507.	3.8	10
77	Surface-Energy Control and Characterization of Nanoparticle Coatings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11200-11211.	3.1	10
78	Preparation and Thermal Characterization of PTFE/PES Nanocomposites. <i>Macromolecular Symposia</i> , 2012, 311, 70-76.	0.7	9
79	Glowing Teacup Demonstration: Trautz-Schorigin Reaction of Natural Polyphenols. <i>Journal of Chemical Education</i> , 2012, 89, 1297-1300.	2.3	9
80	Preparation and properties of PTFE/PAI nanocomposites. <i>Polymer Composites</i> , 2013, 34, 1451-1459.	4.6	9
81	Photocatalytic Lithography: An Innovative Approach to Obtain Patterned pH-responsive Polymer Brushes. <i>Materials Today: Proceedings</i> , 2015, 2, 4183-4189.	1.8	9
82	Polycarbonate-based composites reinforced by in situ polytetrafluoroethylene fibrillation: Preparation, thermal and rheological behavior. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
83	Fully bio-renewable multiblocks copolymers of poly(lactide) and commercial fatty acid-based polyesters polyols: Synthesis and characterization. <i>European Polymer Journal</i> , 2016, 81, 247-256.	5.4	9
84	Determining nonuniformities of core-shell nanoparticle coatings by analysis of the inelastic background of X-ray photoelectron spectroscopy survey spectra. <i>Surface and Interface Analysis</i> , 2020, 52, 770-777.	1.8	9
85	Macro and quasi-mesoporous silicon by self-assembling and metal assisted etching. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1403-1406.	1.8	8
86	Shell thickness determination for PTFE-PS core-shell nanoparticles using scanning transmission X-ray microscopy (STXM). <i>Surface and Interface Analysis</i> , 2018, 50, 1077-1082.	1.8	8
87	Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. <i>Nanomaterials</i> , 2020, 10, 280.	4.1	8
88	Silicon Doping by Polymer Grafting: Size Distribution Matters. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6383-6393.	4.4	8
89	Enhanced antisense effect of modified PNAs delivered through functional PMMA microspheres. <i>International Journal of Pharmaceutics</i> , 2006, 324, 83-91.	5.2	7
90	Thermal and DMA Characterization of PTFE-PMMA Nanocomposites from Core-Shell Nanoparticles. <i>Macromolecular Symposia</i> , 2010, 296, 197-202.	0.7	7

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91	Photoactive spherical colloids for opal photonic crystals. <i>Polymer Composites</i> , 2013, 34, 1443-1450.	4.6	7
92	Effect of shell structure of Ti-immobilized metal ion affinity chromatography core-shell magnetic particles for phosphopeptide enrichment. <i>Scientific Reports</i> , 2019, 9, 15782.	3.3	7
93	Magnetic molecularly imprinted multishell particles for zearalenone recognition. <i>Polymer</i> , 2020, 188, 122102.	3.8	7
94	Composition of ultrathin binary polymer brushes by thermogravimetry-gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3155-3163.	3.7	6
95	Electrostatic Interaction of Negatively Charged Core-Shell Nanoparticles with Antitumoral Cationic Platinum-Based Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3289-3294.	2.0	5
96	Physical ageing reduction in PES through the incorporation of rigid non-interacting PTFE nanoparticles. <i>Thermochimica Acta</i> , 2013, 571, 53-59.	2.7	5
97	Core-shell silica-rhodamine B nanosphere for synthetic opals: from fluorescence spectral redistribution to sensing. <i>RSC Advances</i> , 2020, 10, 14958-14964.	3.6	5
98	Tailor-made core-shell nanospheres for antisense oligonucleotide delivery: IV. Adsorption/release behaviour. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 1339-1357.	3.5	4
99	Preparation and Properties of PTFE-PMMA Core-Shell Nanoparticles and Nanocomposites. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-10.	3.4	4
100	Molar mass and composition effects on the thermal stability of functional P(S- <i>r</i> -MMA) random copolymers for nanolithographic applications. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 581-588.	3.4	4
101	Polymer Nanoparticle Identification and Concentration Measurement Using Fiber-Enhanced Raman Spectroscopy. <i>Chemosensors</i> , 2020, 8, 21.	3.6	4
102	Biocompatible Anionic Polymeric Microspheres as Priming Delivery System for Effective HIV/AIDS Tat-Based Vaccines. <i>PLoS ONE</i> , 2014, 9, e111360.	2.5	4
103	Preparation, properties and self-assembly behavior of PTFE based core-shell nanospheres. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	3
104	The "Mushroom Cloud" Demonstration Revisited. <i>Journal of Chemical Education</i> , 2013, 90, 765-767.	2.3	2
105	Antisense peptide nucleic acid delivered by core-shell microspheres. <i>Journal of Controlled Release</i> , 2005, 101, 397-8.	9.9	2
106	Core-shell nanospheres for oligonucleotide delivery. V: Adsorption/release behavior of 'stealth' nanospheres. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 1209-1227.	3.5	1
107	T.P.22 Nanoparticles as delivery systems for antisense oligoribonucleotides: Biodistribution studies and definition of the release kinetic in treated mdx mice. <i>Neuromuscular Disorders</i> , 2012, 22, 859.	0.6	1
108	The surface nanostructurations by means of near field enhancement with nanospheres. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1

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109	Surface engineering with functional random copolymers for nanolithographic applications. AIP Conference Proceedings, 2016, , .	0.4	1
110	From grafting to to grafting from. AIP Conference Proceedings, 2018, , .	0.4	1
111	Controlled Free-Radical Polymerization: New Breath in a Mature Technology. Polymer News, 2005, 30, 110-119.	0.1	1
112	A New Facile Synthesis of Tertiary Dithioesters.. ChemInform, 2003, 34, no.	0.0	0
113	T.P.2.07 The systemic administration of a low dose of 2OMePS-AON combined with novel cationic polymethylmethacrylate nanoparticles induces the rescue of dystrophin expression in the mdx murine model. Neuromuscular Disorders, 2008, 18, 758.	0.6	0
114	O.14 Biocompatible nanoparticles as slow-release delivery system of 2â€²OMePS AON administered both intraperitoneally and orally in the mdx mice: dystrophin rescue and nanoparticles biodistribution. Neuromuscular Disorders, 2011, 21, 704.	0.6	0
115	Mesoporous silica membranes by self-assembled nanospheres and mediated laser ablation. , 2012, , .		0
116	Neutral wetting brush layers for block copolymer thin films using homopolymer blends. AIP Conference Proceedings, 2016, , .	0.4	0
117	Multishell hybrid magnetic nanoparticles for phosphopeptide enrichment. AIP Conference Proceedings, 2018, , .	0.4	0
118	Analysis of phosphorus-end capped functional polymers, from bulk to ultrathin films. AIP Conference Proceedings, 2018, , .	0.4	0
119	Deterministic doping via self-limited grafting of phosphorus end-terminated polymers. AIP Conference Proceedings, 2018, , .	0.4	0
120	Boron-terminated polystyrene as potential spin-on dopant for microelectronic applications. AIP Conference Proceedings, 2018, , .	0.4	0
121	HPLC method for the determination of monomer conversion and composition during the poly(styrene- <i>i>r</i>-methylmethacrylate) polymerization. International Journal of Polymer Analysis and Characterization, 2020, 25, 188-197.</i>	1.9	0
122	Assessment of the In Vivo Antiproliferative Activity of a Novel Platinum Particulate Pharmacophore. , 2009, , 19-25.		0
123	Spherical Colloid Engineering. , 2015, , 103-125.		0