

Mircea Chipara

List of Publications by Year in descending order

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94
papers

1,438
citations

430874

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345221

36
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97
all docs

97
docs citations

97
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Convenient, Rapid Synthesis of Ag Nanowires. <i>Chemistry of Materials</i> , 2007, 19, 1755-1760.	6.7	235
2	On the effective elastic moduli of carbon nanotubes for nanocomposite structures. <i>Composites Part B: Engineering</i> , 2004, 35, 95-101.	12.0	177
3	TGA analysis of polypropylene-carbon nanofibers composites. <i>Polymer Degradation and Stability</i> , 2008, 93, 871-876.	5.8	89
4	A Dinuclear Ni(I) System Having a Diradical Ni ₂ N ₂ Diamond Core Resting State: Synthetic, Structural, Spectroscopic Elucidation, and Reductive Bond Splitting Reactions. <i>Inorganic Chemistry</i> , 2008, 47, 10479-10490.	4.0	79
5	Nanodiamond-Based Thermal Fluids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4778-4785.	8.0	75
6	Raman spectroscopy of polystyrene nanofibers-Multiwalled carbon nanotubes composites. <i>Applied Surface Science</i> , 2013, 275, 23-27.	6.1	38
7	Roles of oxygen vacancies and pH induced size changes on photo- and radioluminescence of undoped and Eu ³⁺ -doped La ₂ Zr ₂ O ₇ nanoparticles. <i>Journal of Luminescence</i> , 2019, 209, 302-315.	3.1	36
8	Comparison of the π -conjugated ring orientations in polyaniline and polypyrrole. <i>Chemical Physics Letters</i> , 2001, 343, 193-200.	2.6	35
9	Self-healing of high elasticity block copolymers. <i>Polymers for Advanced Technologies</i> , 2009, 20, 427-431.	3.2	34
10	Thermal property of regioregular poly(3-hexylthiophene)/nanotube composites using modified single-walled carbon nanotubes via ion irradiation. <i>Nanotechnology</i> , 2006, 17, 5947-5953.	2.6	33
11	Electron spin resonance on carbon nanotubes-polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3406-3412.	2.1	30
12	Spin-wave modes in magnetic nanowires. <i>Journal of Applied Physics</i> , 2003, 93, 7604-7606.	2.5	27
13	Spectroscopic investigations on PVDF-Fe ₂ O ₃ nanocomposites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48907.	2.6	24
14	Magnetic modes in Ni nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 249, 246-250.	2.3	23
15	Stereoselectivity of cycloolefin polymerization with WCl ₆ -based catalytic systems. <i>Journal of Molecular Catalysis</i> , 1994, 90, 117-124.	1.2	20
16	Electrodeposition and magnetic properties of polypyrrole-Fe nanocomposites. <i>Materials Letters</i> , 2007, 61, 2412-2415.	2.6	20
17	Non-isothermal crystallization kinetics of polyethylene/carbon nanofiber composites. <i>Journal of Composite Materials</i> , 2012, 46, 823-832.	2.4	20
18	Fabrication and characterization of centrifugally spun poly(acrylic acid) nanofibers. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47480.	2.6	20

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19	Polyvinylchloride-Single-Walled Carbon Nanotube Composites: Thermal and Spectroscopic Properties. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	2.7	18
20	Electrospun Polystyrene-Multiwalled Carbon Nanotubes: Imaging, Thermal and Spectroscopic Characterization. <i>Designed Monomers and Polymers</i> , 2012, 15, 197-205.	1.6	18
21	A novel carbon nanofibre/phenolic nanocomposite coated polymer system for tailoring thermal behaviour. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 46, 80-88.	7.6	17
22	ESR investigation of the interaction between WCl ₆ -based catalysts and cyclo-olefins. <i>Journal of Molecular Catalysis</i> , 1985, 28, 351-357.	1.2	16
23	Spectroscopic investigations on polypropylene-carbon nanofiber composites. I. Raman and electron spin resonance spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1644-1652.	2.1	16
24	Ferromagnetic resonance on Ni nanowire arrays. <i>Journal of Materials Research</i> , 2011, 26, 2169-2174.	2.6	16
25	Antibacterial activities of centrifugally spun polyethylene oxide/silver composite nanofibers. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2327-2338.	3.2	16
26	Block Copolymer Elastomer with Graphite Filler: Effect of Processing Conditions and Silane Coupling Agent on the Composite Properties. <i>Polymers</i> , 2018, 10, 46.	4.5	15
27	Polyethylene oxide-fullerene nanocomposites. <i>Applied Surface Science</i> , 2017, 421, 220-227.	6.1	14
28	Three-dimensional memory effect in fluorescent photosensitive glass activated by europium and cerium. <i>Optics Letters</i> , 1998, 23, 1304.	3.3	13
29	Magnetic Properties and Resonance Study of Gd (Co _x Al _{1-x}) ₃ Compounds. <i>Physica Status Solidi (B): Basic Research</i> , 1982, 113, 87-92.	1.5	12
30	On the oxidation state of the tungsten atom in WCl ₆ -based metathesis catalysts used for the ring-opening polymerization of cycloolefins. <i>Journal of Molecular Catalysis</i> , 1988, 46, 405-413.	1.2	12
31	ESR investigations on polyethylene-single wall carbon nanotube composites. <i>Journal of Materials Science</i> , 2008, 43, 1228-1233.	3.7	12
32	Fourier transform infrared spectroscopy and wide-angle X-ray scattering: Investigations on polypropylene-vapor-grown carbon nanofiber composites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 353-360.	2.6	12
33	In Situ Production of Graphene-Fiber Hybrid Structures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25474-25480.	8.0	12
34	Raman spectroscopy and molecular bases of elasticity: SEBS-graphite composites. <i>Polymer</i> , 2019, 176, 74-88.	3.8	12
35	Processing effects on the thermo-physical properties of carbon nanotube polyethylene composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 526, 123-127.	5.6	11
36	On orientation memory in high density polyethylene-carbon nanofibers composites. <i>E-Polymers</i> , 2017, 17, 303-310.	3.0	11

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37	Adding Autonomic Healing Capabilities to Polyethylene Oxide. <i>Advances in Polymer Technology</i> , 2013, 32, .	1.7	10
38	Isotactic polypropyleneâ€“vapor grown carbon nanofibers composites: Electrical properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45297.	2.6	10
39	Spin probe investigation of molecular motions in polyepichlorohydrin: 1. <i>Polymer</i> , 1996, 37, 707-712.	3.8	9
40	1-Dimensional nanoparticles â€“ A brief critical review on biological, medical, and toxicological aspects. <i>Applied Surface Science</i> , 2013, 275, 2-6.	6.1	9
41	ESR and Magnetic Properties of $x\text{Eu}_2\text{O}_3$ ($1 \leq x \leq 1$) [$3\text{B}_2\text{O}_3 \cdot \text{PbO}$] Glasses. <i>Physica Status Solidi A</i> , 1997, 161, 451-458.	1.7	8
42	Magnetic investigations of titanium-doped gamma iron oxides dispersed in polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3432-3437.	2.1	8
43	Structural Reinforcement through Liquid Encapsulation. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600781.	3.7	8
44	Radiation induced modifications in ultra-high molecular weight polyethylene. <i>Surface and Coatings Technology</i> , 2007, 201, 8230-8236.	4.8	7
45	Functionally graded carbon nanofiber-phenolic nanocomposites for sudden temperature change applications. <i>Polymer</i> , 2013, 54, 3940-3948.	3.8	7
46	Centrifugally spun carbon fibers prepared from aqueous poly(vinylpyrrolidone) solutions as binderâ€“free anodes in lithiumâ€“ion batteries. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50396.	2.6	7
47	Solidâ€“Liquid Self-Adaptive Polymeric Composite. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2142-2147.	8.0	6
48	Magnetic properties and thermal stability of polyvinylidene fluorideâ€“ Fe_2O_3 nanocomposites. <i>Journal of Materials Research</i> , 2020, 35, 132-140.	2.6	6
49	Electron spin resonance investigation of molecular motions in oil-extended styrene-butadiene-styrene block copolymers. I. The temperature dependence of resonance spectra: Glass, narrowing, and inflection temperatures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1960-1971.	2.1	5
50	ESR Investigations on Polyethyleneâ€“Fluorine Functionalized Single Wall Carbon Nanotubes Composites. <i>Composite Interfaces</i> , 2010, 17, 625-632.	2.3	5
51	Magnetization precession and domain-wall structure in cobalt-ruthenium-cobalt trilayers. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	5
52	Uv-Vis investigations on ion beam irradiated polycarbonate. <i>E-Polymers</i> , 2008, 8, .	3.0	4
53	ESR study of gamma irradiated 2-methyl nylon3. <i>Radiation Physics and Chemistry</i> , 2010, 79, 350-354.	2.8	4
54	Hydroxyl-Induced Magnetism in Ti Oxides. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2427-2430.	2.1	4

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55	Raman Spectroscopy of Isotactic Polypropylene-Halloysite Nanocomposites. Journal of Nanomaterials, 2012, 2012, 1-8.	2.7	4
56	Investigation of Polymeric Composite Films Using Modified TiO ₂ Nanoparticles for Organic Light Emitting Diodes. Current Nanoscience, 2013, 9, 14-20.	1.2	4
57	On the thermogravimetric analysis of polymers: Polyethylene oxide powder and nanofibers. Journal of Applied Polymer Science, 2022, 139, 52055.	2.6	4
58	ESR investigations on ¹³ C-ray irradiated 3-methyl nylon 3. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3100-3106.	1.4	3
59	Carbon Nanotubes and Their Polymer-Based Composites in Space Environment. , 2009, , .		3
60	Synthesis and Characterization of Poly(butylene Oxide) Grafted Carbon Nanofibers. Journal of Nanoscience and Nanotechnology, 2011, 11, 3965-3969.	0.9	3
61	Polymer-Based Nano/Composites: Theory, Synthesis, Modifications, and Properties. Journal of Nanomaterials, 2015, 2015, 1-2.	2.7	3
62	On polystyrene- <i>b</i> -polyisoprene- <i>b</i> -polystyrene filled with carbon-coated Ni nanoparticles. Journal of Materials Science, 2017, 52, 2452-2459.	3.7	3
63	Nature inspired solid-liquid phase amphibious adhesive. Soft Matter, 2020, 16, 5854-5860.	2.7	3
64	Mechanical Properties of Carbon Nanotubes Composites. Journal of Computational and Theoretical Nanoscience, 2004, 1, 204-215.	0.4	3
65	Polymeric materials for Solar Sail: The combined effects of polymer thickness, radiation, and temperature. Materials Research Society Symposia Proceedings, 2004, 851, 175.	0.1	2
66	Electron Spin Resonance on polyurethanes <i>vs</i> Vapor grown carbon nanofiber composites. Vacuum, 2014, 107, 254-258.	3.5	2
67	Spectroscopic Investigations on the Effect of Proton Bombardment of Polyimide. Materials Research Society Symposia Proceedings, 2004, 851, 523.	0.1	1
68	Spectroscopic Investigations on Epoxy- <i>vs</i> Multiwall Carbon Nanotubes Composites. Journal of Nanoscience and Nanotechnology, 2011, 11, 9050-9056.	0.9	1
69	Electrorheological Analysis of Colloidal Dispersions of Aluminum Oxide and Silicone Oil. Journal of Nanoscience and Nanotechnology, 2011, 11, 6852-6857.	0.9	1
70	Magnetism of FePt Nanoclusters in Polyimide. Journal of Nanomaterials, 2015, 2015, 1-10.	2.7	1
71	Raman investigations on gamma irradiated iPP-VGCNF nanocomposites: The polymer's tale. Surfaces and Interfaces, 2019, 17, 100351.	3.0	1
72	Raman investigations of the radiation-induced modifications in iPP-VGCNF nanocomposites: The nanofillers's tale. Carbon Trends, 2021, 5, 100119.	3.0	1

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73	PVDF-Fe ₃ O ₄ nanocomposites: spectroscopic investigations. Journal of Polymer Research, 2022, 29, 1.	2.4	1
74	Latent and etched track formation in polymeric detectors - A thermodynamic approach. Nuclear Tracks and Radiation Measurements, 1981, 5, 342.	0.4	0
75	Ion Beam Irradiation Effects on Polymers. Materials Research Society Symposia Proceedings, 2003, 792, 327.	0.1	0
76	ESR investigations on radiation-induced modifications of irradiated thin polymeric films. , 2004, 5554, 59.		0
77	Conducting and Antistatic Composites for Space Applications. Materials Research Society Symposia Proceedings, 2004, 851, 444.	0.1	0
78	Proton Beam Induced Modifications in Multi-Functional Polyethylene-Based Carbon Nanotubes Composites. Materials Research Society Symposia Proceedings, 2004, 851, 374.	0.1	0
79	On the degradation of polymeric films confined at nanometer scale. , 2004, , .		0
80	Effect of Nanoparticles on the Thermal Stability of Polymers. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	0
81	Mechanical Degradation of Carbon Nanotubes: ESR Investigations. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	0
82	Irradiation assisted interaction behavior of Regioregular Poly(3-hexylthiophene) nanotube composites. Materials Research Society Symposia Proceedings, 2006, 963, 1.	0.1	0
83	Analysis of Electromagnetic Effect on the Electrorheological Properties of Nano-Laden Systems. , 2008, , .		0
84	Polycarbonate-Carbon Nanofibers Composites: An Electron Spin Resonance Study. Advanced Materials Research, 2008, 47-50, 1165-1168.	0.3	0
85	Polycarbonate-Carbon Nanofibers Composites: An Electron Spin Resonance Study. Polymers and Polymer Composites, 2008, 16, 519-526.	1.9	0
86	Polyoctenamer - Single Walled Carbon Nanotube Composites: Spectroscopic Investigations. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
87	Thermal and viscoelastic behaviors of nanotube-reinforced polyethylene composite. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
88	PS-TiO ₂ Nanocomposites: Thermal Investigations. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
89	Hysteresis and relaxation in granular permanent magnets. Journal of Applied Physics, 2012, 111, 07B507.	2.5	0
90	Selected Peer-Reviewed Articles from the 5th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2010). Journal of Nanoscience and Nanotechnology, 2012, 12, 4685-4687.	0.9	0

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91	Selected Peer-Reviewed Articles from the 6th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT). Journal of Nanoscience and Nanotechnology, 2012, 12, 9007-9009.	0.9	0
92	ESR study of gamma irradiated Nylon3. Radiation Physics and Chemistry, 2013, 84, 157-162.	2.8	0
93	Thermoluminescence in gamma irradiated iPP-VGVGCNF. Applied Surface Science, 2013, 275, 54-59.	6.1	0
94	Preface special issue NANOSMAT 2014, Dublin, Ireland. Surface and Coatings Technology, 2015, 271, 1.	4.8	0