Andrzej Rybak

List of Publications by Year
in descending order

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46	937	393982	476904
papers	citations	19	29
		h-index	g-index

46	46	46	1185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Conductive polymer composites based on metallic nanofiller as smart materials for current limiting devices. Composites Science and Technology, 2010, 70, 410-416.	3.8	114
2	Enhanced thermal conductivity of epoxyâ€“matrix composites with hybrid fillers. Polymers for Advanced Technologies, 2015, 26, 26-31.	1.6	57
3	Gas Barrier, Thermal, Mechanical and Rheological Properties of Highly Aligned Graphene-LDPE Nanocomposites. Polymers, 2017, 9, 294.	2.0	54
4	Electrical and thermomechanical properties of segregated nanocomposites based on PVC and multiwalled carbon nanotubes. Journal of Non-Crystalline Solids, 2010, 356, 635-641.	1.5	51
5	Graphene nanoplateletâ€silica hybrid epoxy composites as electrical insulation with enhanced thermal conductivity. Polymer Composites, 2018, 39, E1682.	2.3	47
6	Enhanced thermal conductivity of graphene nanoplatelets epoxy composites. Materials Science-Poland, 2017, 35, 382-389.	0.4	46
7	Modification of epoxyâ€“anhydride thermosets using a hyperbranched poly(esterâ€amide): I. Kinetic study. Polymer International, 2012, 61, 1710-1725.	1.6	37
8	Magnetic-aligned, magnetite-filled epoxy composites with enhanced thermal conductivity. Journal of Materials Science, 2015, 50, 2510-2516.	1.7	35
9	Photogeneration and photovoltaic effect in blends of derivatives of hexabenzocoronene and perylene. Synthetic Metals, 2005, 155, 150-156.	2.1	31
10	Functional composites with coreâ€“shell fillers: I. Particle synthesis and thermal conductivity measurements. Journal of Materials Science, 2015, 50, 7779-7789.	1.7	29
11	An Investigation into the Influence of Filler Silanization Conditions on Mechanical and Thermal Parameters of Epoxy Resin-Fly Ash Composites. Journal of Polymers and the Environment, 2016, 24, 298-308.	2.4	29
12	Epoxy composites with ceramic coreâ€“shell fillers for thermal management in electrical devices. Polymers for Advanced Technologies, 2017, 28, 1676-1682.	1.6	26
13	Aluminosilicateâ€epoxy resin composite as novel material for electrical insulation with enhanced mechanical properties and improved thermal conductivity. Polymer Composites, 2019, 40, 3182-3188.	2.3	26
14	Interaction of conductor with polymeric materials (XLPE/EPR) at partial discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 2119-2127.	1.8	25
15	Polymer matrix influence on stability of wood polymer composites. Polymers for Advanced Technologies, 2015, 26, 1076-1082.	1.6	25
16	Two-Step Procedure of Fly Ash Modification as an Alternative Method for Creation of Functional Composite. Journal of Polymers and the Environment, 2017, 25, 1342-1347.	2.4	25
17	Photogeneration and transport in thin films of p- and n-type discotic liquid crystals. Synthetic Metals, 2003, 137, 905-906.	2.1	23
18	Charge carrier transport in layers of discotic liquid crystals as studied by transient photocurrents. Synthetic Metals, 2006, 156, 302-309.	2.1	22

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19	Synthesis of polystyrene coated SiC nanowires as fillers in a polyurethane matrix for electromechanical conversion. Nanotechnology, 2010, 21, 145610.	1.3	21
20	Thermally Conductive Shape Memory Polymer Composites Filled with Boron Nitride for Heat Management in Electrical Insulation. Polymers, 2021, 13, 2191.	2.0	18
21	Silicon Nanowire/P3HT Hybrid Solar Cells: Effect of the Electron Localization at Wire Nanodiameters. Energy Procedia, 2012, 31, 136-143.	1.8	17
22	Modification of epoxyâ€“anhydride thermosets with a hyperbranched poly(ester amide). II. Thermal, dynamic mechanical, and dielectric properties and thermal reworkability. Journal of Applied Polymer Science, 2013, 128, 4001-4013.	1.3	17
23	Influence of magnetic field-aided filler orientation on structure and transport properties of ferrite filled composites. Journal of Magnetism and Magnetic Materials, 2016, 419, 345-353.	1.0	15
24	Functional Polymer Composite with Core-Shell Ceramic Filler: II. Rheology, Thermal, Mechanical, and Dielectric Properties. Polymers, 2021, 13, 2161.	2.0	15
25	Photogeneration and photovoltaic effect in poly(N-vinylcarbazole):TiO2 bulk-heterojunction elaborated by hydrolysisâ€“condensation reactions of TiO2 precursors. Synthetic Metals, 2009, 159, 508-512.	2.1	13
26	Terahertz Detection of Wavelength-Size Metal Particles in Pressboard Samples. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 99-107.	2.0	13
27	Influence of molecular order on charge carrier photogeneration in perylene derivative layer. Thin Solid Films, 2008, 516, 4201-4207.	0.8	12
28	Transient dynamics of a nonlinear magneto-optical rotation. Physical Review A, 2018, 97, .	1.0	10
29	Investigation into Limitation of Arc Erosion in LV Switches Through Application of Hybrid Switching. IEEE Transactions on Plasma Science, 2017, 45, 446-453.	0.6	9
30	Processing Influence on Thermal Conductivity of Polymer Nanocomposites. , 2019, , 463-487.		9
31	Highly structured graphene polyethylene nanocomposites. AIP Conference Proceedings, 2019, , .	0.3	9
32	Montmorilloniteâ€“triclosan hybrid as effective antibacterial additive with enhanced thermal stability for protection of plastic electrical components. Polymer Bulletin, 2020, 77, 17-31.	1.7	7
33	Modelling of Effective Thermal Conductivity of Composites Filled with Core-Shell Fillers. Materials, 2020, 13, 5480.	1.3	7
34	Photogeneration of free charge carriers in tenuously packed Ï€ conjugated polymer chains. Polymers for Advanced Technologies, 2011, 22, 2075-2083.	1.6	6
35	Investigation of the influence of pretreatment parameters on the surface characteristics of amorphous metal for use in power industry. Journal of Molecular Structure, 2018, 1160, 360-367.	1.8	6
36	The influence of different conductors on insulating materials degradation by partial discharges. , 2011, , .		5

#	Article	IF	Citations
37	Comparison of PWM and SIN aging of insulating material subjected to surface discharges. , 2012, , .		5
38	Correlation between nanostructural, optical, and photoelectrical properties of P3‹scp›HT‹/scp›:‹scp›S‹/scp›i‹scp›NW‹/scp› nanocomposites for solarâ€cell application. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 670-676.	0.8	5
39	Monitoring of air voids at plastic-metal interfaces by terahertz radiation. Infrared Physics and Technology, 2020, 104, 103119.	1.3	5
40	Hybrid films based on silicon nanowires dispersed in a semiconducting polymer for thin film solar cells: Opportunities and new challenges. Synthetic Metals, 2012, 161, 2623-2627.	2.1	4
41	Metal migration at conductor / XLPE interface subjected to partial discharges at different electrical stresses. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 456-462.	1.8	4
42	Hybrid polymer/TiO2 films by in situ hydrolysis condensation of titanium alkoxide precursors for photovoltaic transparent windows. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1627-1630.	0.8	2
43	Synthesis and characterization of silane based binder for the amorphous metal ribbon. Thin Solid Films, 2020, 716, 138433.	0.8	1
44	Migration effects at conductor / XLPE interface subjected to partial discharges at different electrical stresses. , 2013, , .		0
45	Analysis of interfacial metal Migration into dielectric materials subjected to high voltage stress. , 2014, , .		0
46	Spectroscopic and rheological investigation of candidates for the double-layered binder for amorphous metal ribbon. Journal of Molecular Structure, 2020, 1207, 127763.	1.8	0