

# Vladimir Pavlinek

## List of Publications by Year in descending order

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81  
papers

2,924  
citations

126858

33  
h-index

175177

52  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-modified antibacterial TiO <sub>2</sub> /Ag <sup>+</sup> nanoparticles: Preparation and properties. <i>Applied Surface Science</i> , 2006, 252, 4154-4160.	3.1	212
2	MnO <sub>2</sub> nanoflake/polyaniline nanorod hybrid nanostructures on graphene paper for high-performance flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17165-17171.	5.2	109
3	Electrorheological characteristics of polyaniline/titanate composite nanotube suspensions. <i>Colloid and Polymer Science</i> , 2009, 287, 435-441.	1.0	100
4	Improved thermooxidation and sedimentation stability of covalently-coated carbonyl iron particles with cholesteryl groups and their influence on magnetorheology. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 146-151.	5.0	100
5	Synthesis of Silicone Elastomers Containing Silyl-Based Polymer-Grafted Carbonyl Iron Particles: An Efficient Way To Improve Magnetorheological, Damping, and Sensing Performances. <i>Macromolecules</i> , 2017, 50, 2189-2200.	2.2	97
6	Controlled synthesis of hierarchical polyaniline nanowires/ordered bimodal mesoporous carbon nanocomposites with high surface area for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2013, 240, 544-550.	4.0	94
7	Conducting polypyrrole confined in ordered mesoporous silica SBA-15 channels: Preparation and its electrorheology. <i>Microporous and Mesoporous Materials</i> , 2006, 93, 263-269.	2.2	88
8	A facile controllable coating of carbonyl iron particles with poly(glycidyl methacrylate): a tool for adjusting MR response and stability properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4646-4656.	2.7	86
9	Fabrication of polyaniline/mesoporous carbon/MnO <sub>2</sub> ternary nanocomposites and their enhanced electrochemical performance for supercapacitors. <i>Electrochimica Acta</i> , 2012, 71, 27-32.	2.6	75
10	Synthesis and electrorheological characteristics of sea urchin-like TiO <sub>2</sub> hollow spheres. <i>Colloid and Polymer Science</i> , 2011, 289, 799-805.	1.0	73
11	MnO <sub>2</sub> nanoflakes/hierarchical porous carbon nanocomposites for high-performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015, 164, 252-259.	2.6	73
12	Morphology-controllable synthesis of MnO <sub>2</sub> hollow nanospheres and their supercapacitive performance. <i>New Journal of Chemistry</i> , 2013, 37, 722.	1.4	68
13	The electrorheological efficiency of polyaniline particles with various conductivities suspended in silicone oil. <i>Colloid and Polymer Science</i> , 2009, 287, 403-412.	1.0	66
14	Surfactant-assisted polypyrrole/titanate composite nanofibers: Morphology, structure and electrical properties. <i>Synthetic Metals</i> , 2008, 158, 953-957.	2.1	62
15	Synthesis and structural properties of polypyrrole/nano-Y <sub>2</sub> O <sub>3</sub> conducting composite. <i>Applied Surface Science</i> , 2006, 253, 1736-1740.	3.1	59
16	Novel synthesis of core-shell urchin-like ZnO coated carbonyl iron microparticles and their magnetorheological activity. <i>RSC Advances</i> , 2014, 4, 996-1003.	1.7	58
17	A rheological evaluation of steady shear magnetorheological flow behavior using three-parameter viscoplastic models. <i>Journal of Rheology</i> , 2016, 60, 687-694.	1.3	58
18	Electrorheological properties of new mesoporous material with conducting polypyrrole in mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2006, 94, 193-199.	2.2	57

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19	Effect of carrageenan type on viscoelastic properties of processed cheese. <i>Food Hydrocolloids</i> , 2008, 22, 1054-1061.	5.6	57
20	Synthesis and characterization of new mesoporous material with conducting polypyrrole confined in mesoporous silica. <i>Materials Chemistry and Physics</i> , 2006, 98, 504-508.	2.0	54
21	MnO <sub>2</sub> /polyaniline hybrid nanostructures on carbon cloth for supercapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1459-1467.	1.2	54
22	The effect of polyaniline layer deposited on silica particles on electrorheological and dielectric properties of their silicone oil suspensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 353, 21-28.	1.2	53
23	Plasma-treated carbonyl iron particles as a dispersed phase in magnetorheological fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 387, 99-103.	2.3	53
24	An effect of carbonization on the electrorheology of poly(p-phenylenediamine). <i>Carbon</i> , 2013, 63, 187-195.	5.4	49
25	Electrorheology of aniline oligomers. <i>Colloid and Polymer Science</i> , 2013, 291, 2079-2086.	1.0	49
26	The observation of a conductivity threshold on the electrorheological effect of p-phenylenediamine oxidized with p-benzoquinone. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9973-9980.	2.7	48
27	Tailoring the magnetic properties and magnetorheological behavior of spinel nanocrystalline cobalt ferrite by varying annealing temperature. <i>Dalton Transactions</i> , 2014, 43, 6919.	1.6	43
28	Tunable electrorheological performance of silicone oil suspensions based on controllably reduced graphene oxide by surface initiated atom transfer radical polymerization of poly(glycidyl methacrylate). <i>Journal of Applied Polymer Science</i> , 2019, 141, 47277-47284.	1.0	42
29	Replacement of traditional emulsifying salts by selected hydrocolloids in processed cheese production. <i>International Dairy Journal</i> , 2010, 20, 336-343.	1.5	39
30	Construction of Hierarchical CuO/Cu <sub>2</sub> O@NiCo <sub>2</sub> S <sub>4</sub> Nanowire Arrays on Copper Foam for High Performance Supercapacitor Electrodes. <i>Nanomaterials</i> , 2017, 7, 273.	1.9	38
31	Synthesis and magnetorheological characteristics of ribbon-like, polypyrrole-coated carbonyl iron suspensions under oscillatory shear. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2977-2982.	1.3	37
32	The chemical stability and cytotoxicity of carbonyl iron particles grafted with poly(glycidyl methacrylate). <i>Journal of Applied Polymer Science</i> , 2018, 141, 47285-47292.	1.7	37
33	Graphene oxide reduction during surface-initiated atom transfer radical polymerization of glycidyl methacrylate: Controlling electro-responsive properties. <i>Chemical Engineering Journal</i> , 2016, 283, 717-720.	6.6	36
34	Polystyrene/multi-wall carbon nanotube composites prepared by suspension polymerization and their electrorheological behavior. <i>Current Applied Physics</i> , 2009, 9, 184-188.	1.1	32
35	Enhancement of radio-absorbing properties and thermal conductivity of polysiloxane-based magnetorheological elastomers by the alignment of filler particles. <i>Smart Materials and Structures</i> , 2017, 26, 095005.	1.8	31
36	SYNTHESIS OF TITANATE/POLYPYRROLE COMPOSITE ROD-LIKE PARTICLES AND THE ROLE OF CONDUCTING POLYMER ON ELECTORHEOLOGICAL EFFICIENCY. <i>International Journal of Modern Physics B</i> , 2012, 26, 1250007.	1.0	30

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37	Structural and electrorheological properties of mesoporous silica modified with triethanolamine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 318, 169-174.	2.3	28
38	The effect of selected phosphate emulsifying salts on viscoelastic properties of processed cheese. <i>LWT - Food Science and Technology</i> , 2010, 43, 1220-1225.	2.5	28
39	Facile fabrication and characterization of novel polyaniline/titanate composite nanotubes directed by block copolymer. <i>European Polymer Journal</i> , 2007, 43, 3780-3786.	2.6	27
40	Effects of macropore size on structural and electrochemical properties of hierarchical porous carbons. <i>Journal of Materials Science</i> , 2012, 47, 6444-6450.	1.7	27
41	Magnetorheological suspensions based on modified carbonyl iron particles with an extremely thin poly( <i>n</i> -butyl acrylate) layer and their enhanced stability properties. <i>Smart Materials and Structures</i> , 2016, 25, 085011.	1.8	27
42	Electromagnetic, magnetorheological and stability properties of polysiloxane elastomers based on silane-modified carbonyl iron particles with enhanced wettability. <i>Smart Materials and Structures</i> , 2017, 26, 105003.	1.8	27
43	The enhanced magnetorheological performance of carbonyl iron suspensions using magnetic Fe <sub>3</sub> O <sub>4</sub> /ZHS hybrid composite sheets. <i>RSC Advances</i> , 2015, 5, 19213-19219.	1.7	26
44	Effect of hydrophilicity of polyaniline particles on their electrorheology: Steady flow and dynamic behaviour. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 236-240.	5.0	25
45	The effect of pectin concentration on viscoelastic and sensory properties of processed cheese. <i>International Journal of Food Science and Technology</i> , 2008, 43, 1663-1670.	1.3	24
46	Surface-initiated atom transfer radical polymerization from graphene oxide: A way towards fine tuning of electric conductivity and electro-responsive capabilities. <i>Materials Letters</i> , 2018, 211, 138-141.	1.3	23
47	The storage stability of polyvinylbutyral solutions from an electrospinnability standpoint. <i>Polymer Degradation and Stability</i> , 2014, 105, 134-139.	2.7	22
48	The Impact of Polymer Grafting from a Graphene Oxide Surface on Its Compatibility with a PDMS Matrix and the Light-Induced Actuation of the Composites. <i>Polymers</i> , 2017, 9, 264.	2.0	22
49	Rheological Behavior of Poly(methyl methacrylate) Dispersions Stabilized by a Diblock Copolymer. 2. Positive and Negative Electrorheological Effect. <i>Langmuir</i> , 2000, 16, 1447-1449.	1.6	20
50	Preparation and electrorheology of new mesoporous polypyrrole/MCM-41 suspensions. <i>Journal of Materials Science</i> , 2006, 41, 5047-5049.	1.7	20
51	Carbonyl iron coated with a sulfobetaine moiety as a biocompatible system and the magnetorheological performance of its silicone oil suspensions. <i>RSC Advances</i> , 2016, 6, 32823-32830.	1.7	20
52	Electrorheological properties of suspensions of silica nanoparticles modified by urea and N,N-dimethylformamide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 297, 142-146.	2.3	18
53	Effect of field strength and temperature on viscoelastic properties of electrorheological suspensions of urea-modified silica particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 316, 89-94.	2.3	18
54	Effect of addition of selected solid cosolutes on viscoelastic properties of model processed cheese containing pectin. <i>Food Hydrocolloids</i> , 2009, 23, 2078-2084.	5.6	17

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55	Synthesis and electrorheological characteristics of titanate nanotube suspensions under oscillatory shear. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 550-554.	2.9	17
56	Structure changes of electrorheological fluids based on polyaniline particles with various hydrophilicities and time dependence of shear stress and conductivity during flow. <i>Colloid and Polymer Science</i> , 2011, 289, 409-414.	1.0	17
57	The effect of selected hydrocolloids on the rheological properties of processed cheese analogues made with vegetable fats during the cooling phase. <i>International Journal of Dairy Technology</i> , 2013, 66, 484-489.	1.3	17
58	Temperature-dependent electrorheological effect and its description with respect to dielectric spectra. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 880-886.	1.4	17
59	Template-free synthesis of hollow poly( <i>o</i> -anisidine) microspheres and their electrorheological characteristics. <i>Smart Materials and Structures</i> , 2011, 20, 065014.	1.8	16
60	Conductivity of flowing polyaniline suspensions in electric field. <i>Colloid and Polymer Science</i> , 2008, 286, 1403-1409.	1.0	14
61	Controlled synthesis of mesoporous carbon nanosheets and their enhanced supercapacitive performance. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1677-1684.	1.2	14
62	Effect of phenolic resin infiltration content on the structural and electrochemical properties of hierarchical porous carbons. <i>Journal of Materials Science</i> , 2014, 49, 7489-7496.	1.7	12
63	The Effect of PVAc Solution Viscosity on Diameter of PVAc Nanofibres Prepared by Technology of Electrospinning. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	11
64	The influence of sonication of poly(ethylene oxide) solutions to the quality of resulting electrospun nanofibrous mats. <i>Polymer Degradation and Stability</i> , 2016, 126, 101-106.	2.7	10
65	Synthesis and Structural Characterization of Polyaniline/Mesoporous Carbon Nanocomposite. <i>International Journal of Polymer Analysis and Characterization</i> , 2008, 13, 25-36.	0.9	8
66	The effect of the combination of reducing and oxidising agents on the viscoelastic properties of dough and sensory characteristics of buns. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 1681-1687.	1.7	8
67	INCREASING ELECTORRHEOLOGICAL RESPONSE OF PARTICLES: THE EFFECT OF CONDUCTIVE POLYMER. <i>International Journal of Modern Physics B</i> , 2007, 21, 4883-4889.	1.0	5
68	The effect of compatibility of suspension particles with the oil medium on electrorheological efficiency. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1055-1059.	1.4	5
69	Magnetorheological behaviour and electrospinning of poly(ethylene oxide) suspensions with magnetic nanoparticles. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 898-903.	1.4	5
70	THE EFFECT OF POLYPYRROLE LOADING ON THE ELECTORRHEOLOGICAL PROPERTIES OF POLYPYRROLE/SBA-15 SUSPENSIONS. <i>International Journal of Modern Physics B</i> , 2007, 21, 5026-5032.	1.0	3
71	Core-shell Structured Polypyrrole-coated Magnetic Carbonyl Iron Microparticles and their Magnetorheology. , 2011, , .		3
72	ELECTORRHEOLOGICAL AND DIELECTRIC PROPERTIES OF UREA/SIO <sub>2</sub> NANOCOMPOSITE SUSPENSIONS MODIFIED BY N, N-DIMETHYLFORMAMIDE. <i>International Journal of Modern Physics B</i> , 2007, 21, 4782-4789.	1.0	2

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73	The influence of reducing and oxidising agents on the rheology of wheat flour dough. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 56, 163-170.	0.2	2
74	Smart composites based on controllably grafted graphene oxide particles and elastomeric matrix with sensing capability. , 2017, , .		1
75	Impact of reducing and oxidising agents on the wheat flour dough dynamic rheological properties. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 59, 191-198.	0.2	1
76	Electrorheological Properties of Suspensions of Polypyrrole Ribbon Particles in Silicone Oil. , 2011, , .		0
77	A note on secondary electrorheological patterns. Journal of Intelligent Material Systems and Structures, 2012, 23, 1061-1066.	1.4	0
78	Comparison of electrorheological characteristics obtained in two geometrical arrangements: Parallel plates and concentric cylinders. AIP Conference Proceedings, 2015, , .	0.3	0
79	THE EFFECT OF POLYPYRROLE LOADING ON THE ELECTORHEOLOGICAL PROPERTIES OF POLYPYRROLE/SBA-15 SUSPENSIONS. , 2007, , .		0
80	The effect of addition of selected carrageenans on viscoelastic properties of model processed cheese spreads. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 55, 51-58.	0.2	0
81	Light-induced and sensing capabilities of SI-ATRP modified graphene oxide particles in elastomeric matrix. Proceedings of SPIE, 2017, , .	0.8	0