

Vladimir Djokovic

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,493
citations

201674

27
h-index

206112

48
g-index

71
all docs

71
docs citations

71
times ranked

3552
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fabrication and Characterization of Silver~Polyvinyl Alcohol Nanocomposites. <i>Chemistry of Materials</i> , 2003, 15, 5019-5024. | 6.7 | 565 |
| 2 | Morphology, mechanical and thermal properties of composites of polypropylene and nanostructured wollastonite filler. <i>Polymer Testing</i> , 2009, 28, 348-356. | 4.8 | 132 |
| 3 | Fabrication and antibacterial properties of ZnO~alginate nanocomposites. <i>Carbohydrate Polymers</i> , 2012, 88, 263-269. | 10.2 | 119 |
| 4 | Temperature dependence of the electrical conductivity of epoxy/expanded graphite nanosheet composites. <i>Scripta Materialia</i> , 2008, 58, 846-849. | 5.2 | 96 |
| 5 | Synthesis and characterization of nanocomposite of polyvinyl alcohol and lead sulfide nanoparticles. <i>Materials Chemistry and Physics</i> , 2006, 95, 67-71. | 4.0 | 86 |
| 6 | ~Green~™ synthesis and optical properties of silver~chitosan complexes and nanocomposites. <i>Reactive and Functional Polymers</i> , 2010, 70, 869-873. | 4.1 | 86 |
| 7 | Preparation and properties of nano-sized Ag and Ag ₂ S particles in biopolymer matrix. <i>European Physical Journal E</i> , 2007, 22, 51-59. | 1.6 | 70 |
| 8 | Thermal and mechanical properties of cross-linked and uncross-linked linear low-density polyethylene~wax blends. <i>Polymer Degradation and Stability</i> , 2003, 79, 53-59. | 5.8 | 67 |
| 9 | Adsorption of sulfur onto a surface of silver nanoparticles stabilized with sago starch biopolymer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 73, 30-35. | 5.0 | 59 |
| 10 | Silver nanoparticles encapsulated in glycogen biopolymer: Morphology, optical and antimicrobial properties. <i>Carbohydrate Polymers</i> , 2011, 83, 883-890. | 10.2 | 54 |
| 11 | Ferroelectric nanocomposites of polyvinylidene fluoride/polymethyl methacrylate blend and BaTiO ₃ particles: Fabrication of β -crystal polymorph rich matrix through mechanical activation of the filler. <i>Journal of Applied Physics</i> , 2014, 115, . | 2.5 | 48 |
| 12 | Influence of CdS-filler on the thermal properties of polystyrene. <i>European Polymer Journal</i> , 2002, 38, 1659-1662. | 5.4 | 47 |
| 13 | ZnO-modified cellulose fiber sheets for antibody immobilization. <i>Carbohydrate Polymers</i> , 2014, 109, 139-147. | 10.2 | 42 |
| 14 | ATR-FTIR study of the interaction of CO ₂ with bacterial cellulose-based membranes. <i>Chemical Engineering Journal</i> , 2017, 324, 83-92. | 12.7 | 42 |
| 15 | Glycogen and gold nanoparticle bioconjugates: controlled plasmon resonance via glycogen-induced nanoparticle aggregation. <i>RSC Advances</i> , 2013, 3, 8705. | 3.6 | 41 |
| 16 | Thermal and dynamic mechanical properties of bio-based poly(furfuryl alcohol)/sisal whiskers nanocomposites. <i>Polymer Bulletin</i> , 2013, 70, 1265-1276. | 3.3 | 40 |
| 17 | ZnO/Ag hybrid nanocubes in alginate biopolymer: Synthesis and properties. <i>Chemical Engineering Journal</i> , 2014, 253, 341-349. | 12.7 | 40 |
| 18 | Glass transition and polymer dynamics in silver/poly(methyl methacrylate) nanocomposites. <i>European Polymer Journal</i> , 2011, 47, 1514-1525. | 5.4 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Stress relaxation in hematite nanoparticles-polystyrene composites. <i>Macromolecular Rapid Communications</i> , 2000, 21, 994-997. | 3.9 | 36 |
| 20 | Composites of linear low density polyethylene and short sisal fibres: The effects of peroxide treatment. <i>Journal of Materials Science</i> , 2004, 39, 3403-3412. | 3.7 | 36 |
| 21 | Tryptophan-functionalized gold nanoparticles for deep UV imaging of microbial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 742-750. | 5.0 | 35 |
| 22 | Characterization of polystyrene filled with HgS nanoparticles. <i>Materials Letters</i> , 2004, 58, 361-364. | 2.6 | 33 |
| 23 | Viscoelastic behavior of semicrystalline polymers at elevated temperatures on the basis of a two-process model for stress relaxation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 3239-3246. | 2.1 | 31 |
| 24 | Viscoelastic properties and antimicrobial activity of cellulose fiber sheets impregnated with Ag nanoparticles. <i>Carbohydrate Polymers</i> , 2012, 90, 1139-1146. | 10.2 | 31 |
| 25 | Structural properties of composites of polyvinylidene fluoride and mechanically activated BaTiO ₃ particles. <i>Physica Scripta</i> , 2013, T157, 014006. | 2.5 | 31 |
| 26 | The high temperature secondary crystallisation of aged isotactic polypropylene. <i>Polymer Testing</i> , 2004, 23, 621-627. | 4.8 | 28 |
| 27 | Structure and properties of PbS/polyacrylamide nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 835-838. | 2.3 | 28 |
| 28 | The influence of hematite nano-crystals on the thermal stability of polystyrene. <i>Polymer Degradation and Stability</i> , 2006, 91, 313-316. | 5.8 | 28 |
| 29 | Inhibition of Microbial Growth by Silver/Starch Nanocomposite Thin Films. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 2343-2355. | 3.5 | 28 |
| 30 | Biopolymer-protected CdSe nanoparticles. <i>Carbohydrate Research</i> , 2009, 344, 2383-2387. | 2.3 | 26 |
| 31 | Structural and electrical properties of ferroelectric poly(vinylidene fluoride) and mechanically activated ZnO nanoparticle composite films. <i>Physica Scripta</i> , 2018, 93, 105801. | 2.5 | 25 |
| 32 | Influence of orientation and irradiation on stress relaxation of linear low-density polyethylene (LLDPE): a two-process model. <i>Polymer</i> , 1999, 40, 2631-2637. | 3.8 | 23 |
| 33 | Conduction of heat in inhomogeneous solids. <i>Applied Physics Letters</i> , 1998, 73, 321-323. | 3.3 | 22 |
| 34 | Study of Sago Starch-CdS Nanocomposite Films: Fabrication, Structure, Optical and Thermal Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 986-993. | 0.9 | 22 |
| 35 | The influence of wax content on the physical properties of low-density polyethylene-wax blends. <i>Polymer International</i> , 2003, 52, 999-1004. | 3.1 | 21 |
| 36 | Composites comprising CdS nanoparticles and poly(ethylene oxide): optical properties and influence of the nanofiller content on the thermal behaviour of the host matrix. <i>Colloid and Polymer Science</i> , 2008, 286, 683-689. | 2.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Polychloroprene nanocomposites filled with different organically modified clays: Morphology, thermal degradation and stress relaxation behaviour. <i>Polymer Testing</i> , 2011, 30, 585-593. | 4.8 | 20 |
| 38 | Formation of nano-plate silver particles in the presence of polyampholyte copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 414, 17-25. | 4.7 | 19 |
| 39 | Recrystallization processes induced by accelerated ageing in isotactic polypropylene of different morphologies. <i>Polymer Degradation and Stability</i> , 2000, 67, 233-237. | 5.8 | 18 |
| 40 | Interfacial Charge Transfer Transitions in Colloidal TiO ₂ Nanoparticles Functionalized with Salicylic acid and 5-Aminosalicylic acid: A Comparative Photoelectron Spectroscopy and DFT Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29057-29066. | 3.1 | 17 |
| 41 | Synthesis of Y ₂ SiO ₅ :Eu ³⁺ nanoparticles from a hydrothermally prepared silica sol. <i>Journal of Alloys and Compounds</i> , 2008, 464, 357-360. | 5.5 | 16 |
| 42 | PVDF-HFP/NKBT composite dielectrics: Perovskite particles induce the appearance of an additional dielectric relaxation process in ferroelectric polymer matrix. <i>Polymer Testing</i> , 2021, 96, 107093. | 4.8 | 15 |
| 43 | Preparation and optical properties of CdS nanoparticles dispersed in poly(2-(dimethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT/Overlook | 3.6 | 14 |
| 44 | A fluorescent nanoprobe for single bacterium tracking: functionalization of silver nanoparticles with tryptophan to probe the nanoparticle accumulation with single cell resolution. <i>Analyst</i> , The, 2016, 141, 1988-1996. | 3.5 | 14 |
| 45 | DSC melting behavior of drawn and gamma-irradiated low-density polyethylene. <i>Polymer Degradation and Stability</i> , 1997, 56, 227-233. | 5.8 | 13 |
| 46 | Formation and behaviour of low-temperature melting peak of quenched and annealed isotactic polypropylene. <i>Polymer International</i> , 2002, 51, 111-116. | 3.1 | 13 |
| 47 | Aerosol Synthesis and Gas-Phase Photoelectron Spectroscopy of Ag-Bi-I Nanosystems. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23930-23937. | 3.1 | 13 |
| 48 | Stress Relaxation in High Density Polyethylene. Effects of Orientation and Gamma Radiation. <i>Polymer Journal</i> , 1999, 31, 1194-1199. | 2.7 | 11 |
| 49 | Confined growth of Ag ₂ S semiconductor nanocrystals in the presence of PDMAEMA-co-AA polyampholyte co-polymer. <i>Materials Letters</i> , 2010, 64, 1123-1126. | 2.6 | 11 |
| 50 | Interaction of amino acid-functionalized silver nanoparticles and <i>Candida albicans</i> polymorphs: A deep-UV fluorescence imaging study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 341-348. | 5.0 | 11 |
| 51 | Dependence of mechanical and electrical properties of silver nanocubes impregnated bacterial cellulose-silk fibroin-polyvinyl alcohol films on light exposure. <i>Polymer Testing</i> , 2018, 71, 110-114. | 4.8 | 11 |
| 52 | Velocity Map Imaging VUV Angle-Resolved Photoemission on Isolated Nanosystems: Case of Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24500-24512. | 3.1 | 11 |
| 53 | Effects of gamma irradiation on the stress relaxation of drawn ultrahigh molecular weight polyethylene. <i>Radiation Physics and Chemistry</i> , 1999, 55, 605-607. | 2.8 | 10 |
| 54 | Polystyrene-co-maleic acid/CdS nanocomposites: Preparation and properties. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1302-1306. | 4.0 | 10 |

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|----|---|-----|-----------|
| 55 | Electrical properties of a composite comprising epoxy resin and \pm -hematite nanorods. <i>Polymer</i> , 2008, 49, 4000-4008. | 3.8 | 10 |
| 56 | Photo-induced changes and contact relaxation of the surface AC-conductivity of the paper prepared from poly(ethyleneimine)- TiO_2 -anthocyanin modified cellulose fibers. <i>Cellulose</i> , 2015, 22, 779-788. | 4.9 | 9 |
| 57 | Dynamic mechanical and thermal properties of the composites of thermoplastic starch and lanthanum hydroxide nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013, 127, 699-709. | 2.6 | 7 |
| 58 | Binary mixtures of polyethylene and oxidized wax: Dependency of thermal and mechanical properties upon mixing procedure. <i>Journal of Applied Polymer Science</i> , 2003, 89, 2446-2456. | 2.6 | 6 |
| 59 | Preparation and characterization of polystyrene films containing PbS nanoparticles. <i>Journal of Materials Science</i> , 2005, 40, 4407-4409. | 3.7 | 6 |
| 60 | Generation of photo charge in poly(ethyleneimine)- TiO_2 -anthocyanin modified papers conditioned at different humidities. <i>Dyes and Pigments</i> , 2018, 149, 51-58. | 3.7 | 6 |
| 61 | Fluorescence microscopy and photodielectric characterization studies of the composite films of polyvinyl alcohol and tryptophan functionalized silver nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 128050. | 4.7 | 5 |
| 62 | Theory of photothermal effects in thermally inhomogeneous solids with constant effusivity. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 1736-1738. | 2.8 | 3 |
| 63 | Structure and optical properties of noble metal and oxide nanoparticles dispersed in various polysaccharide biopolymers. , 2011, , . | | 3 |
| 64 | DUV fluorescence bioimaging study of the interaction of partially reduced graphene oxide and liver cancer cells. <i>2D Materials</i> , 2018, 5, 045019. | 4.4 | 3 |
| 65 | Effect of hydrodynamic cavitation water treatment on <i>Pseudomonas aeruginosa</i> quorum-sensing molecules. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26182-26186. | 5.3 | 3 |
| 66 | PS- NH_2 + PMMA- COOH blend: A promising substrate material for the deposition of densely packed gold nanoparticles. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 85-87. | 2.4 | 2 |
| 67 | Morphology and magnetic properties of the ethylene-co-vinyl acetate/iron nanocomposite films prepared by implantation with Fe^{6+} ions. <i>Applied Surface Science</i> , 2016, 378, 362-367. | 6.1 | 2 |
| 68 | Deep UV fluorescence imaging study of <i>Candida albicans</i> cells treated with gold-riboflavin hydrocolloids. <i>Optical and Quantum Electronics</i> , 2016, 48, 1. | 3.3 | 2 |
| 69 | Viscoelastic Properties of Polyethylene at Elevated Temperatures on the Basis of Two-Process Model for Stress Relaxation. <i>Materials Science Forum</i> , 2000, 352, 195-200. | 0.3 | 1 |
| 70 | Semiconductor nanoparticles in poly((2-dimethylamino)ethyl methacrylate-co-acrylic acid) co-polymers. <i>Physica Scripta</i> , 2013, T157, 014063. | 2.5 | 1 |
| 71 | Theoretical Description of the Fourier Transform of the Absolute Amplitude Spectra and Its Applications. , 0, , . | | 0 |