# Patrycja Bober

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3193861/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 105 papers | 2,932 citations | 147566 31 h-index | 205818 48 g-index |
| 106 all docs | 106 docs citations | 106 times ranked | 2989 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Polypyrrole salts and bases: superior conductivity of nanotubes and their stability towards the loss of conductivity by deprotonation. RSC Advances, 2016, 6, 88382-88391. | 1.7 | 145 |
| 2 | Polypyrrole nanotubes: mechanism of formation. RSC Advances, 2014, 4, 1551-1558. | 1.7 | 134 |
| 3 | Antimicrobial activity and cytotoxicity of cotton fabric coated with conducting polymers, polyaniline or polypyrrole, and with deposited silver nanoparticles. Applied Surface Science, 2017, 396, 169-176. | 3.1 | 133 |
| 4 | Biocomposites of Nanofibrillated Cellulose, Polypyrrole, and Silver Nanoparticles with Electroconductive and Antimicrobial Properties. Biomacromolecules, 2014, 15, 3655-3663. | 2.6 | 106 |
| 5 | Polypyrrole nanotubes: The tuning of morphology and conductivity. Polymer, 2017, 113, 247-258. | 1.8 | 102 |
| 6 | The biocompatibility of polyaniline and polypyrrole: A comparative study of their cytotoxicity, embryotoxicity and impurity profile. Materials Science and Engineering C, 2018, 91, 303-310. | 3.8 | 96 |
| 7 | Polypyrrole prepared in the presence of methyl orange and ethyl orange: nanotubes versus globules in conductivity enhancement. Journal of Materials Chemistry C, 2017, 5, 4236-4245. | 2.7 | 90 |
| 8 | Fabrication of polyaniline/poly(vinyl alcohol)/montmorillonite hybrid aerogels toward efficient adsorption of organic dye pollutants. Journal of Hazardous Materials, 2022, 435, 129004. | 6.5 | 62 |
| 9 | Polyaniline Cryogels Supported with Poly(vinyl alcohol): Soft and Conducting. Macromolecules, 2017, 50, 972-978. | 2.2 | 58 |
| 10 | Polyaniline cryogels: Biocompatibility of novel conducting macroporous material. Scientific Reports, 2018, 8, 135. | 1.6 | 57 |
| 11 | Polyanilineâ€“silver composites prepared by the oxidation of aniline with silver nitrate in solutions of sulfonic acids. Electrochimica Acta, 2011, 56, 3580-3585. | 2.6 | 54 |
| 12 | Polyaniline: Aniline oxidation with strong and weak oxidants under various acidity. Materials Chemistry and Physics, 2017, 194, 206-218. | 2.0 | 54 |
| 13 | Polypyrrole-coated cotton textile as adsorbent of methylene blue dye. Chemical Papers, 2018, 72, 1605-1618. | 1.0 | 54 |
| 14 | Oxidation of Aniline with Silver Nitrate Accelerated byp-Phenylenediamine: A New Route to Conducting Composites. Macromolecules, 2010, 43, 10406-10413. | 2.2 | 53 |
| 15 | Polyanilineâ€“silver composites prepared by the oxidation of aniline with mixed oxidants, silver nitrate and ammonium peroxydisulfate: The control of silver content. Polymer, 2011, 52, 5947-5952. | 1.8 | 53 |
| 16 | Polypyrroleâ€“silver composites prepared by the reduction of silver ions with polypyrrole nanotubes. Polymer Chemistry, 2013, 4, 3610. | 1.9 | 53 |
| 17 | Polyanilineâ€“silver composites prepared by the oxidation of aniline with silver nitrate in acetic acid solutions. Polymer International, 2010, 59, 437-446. | 1.6 | 52 |
| 18 | Electrorheology of aniline oligomers. Colloid and Polymer Science, 2013, 291, 2079-2086. | 1.0 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The deposition of globular polypyrrole and polypyrrole nanotubes on cotton textile. Applied Surface Science, 2015, 356, 737-741. | 3.1 | 47 |
| 20 | Polypyrrole Nanotubes and Their Carbonized Analogs: Synthesis, Characterization, Gas Sensing Properties. Sensors, 2016, 16, 1917. | 2.1 | 44 |
| 21 | Gravure-printed ammonia sensor based on organic polyaniline colloids. Sensors and Actuators B: Chemical, 2016, 225, 510-516. | 4.0 | 41 |
| 22 | Cationic dyes as morphology-guiding agents for one-dimensional polypyrrole with improved conductivity. Polymer, 2019, 174, 11-17. | 1.8 | 38 |
| 23 | The oxidation of aniline with p-benzoquinone and its impact on the preparation of the conducting polymer, polyaniline. Synthetic Metals, 2014, 192, 66-73. | 2.1 | 36 |
| 24 | The oxidative polymerization of pâ€phenylenediamine with silver nitrate: Toward highly conducting micro/nanostructured silver/conjugated polymer composites. Journal of Polymer Science Part A, 2011, 49, 3387-3403. | 2.5 | 35 |
| 25 | Cotton Fabric Coated with Conducting Polymers and its Application in Monitoring of Carnivorous Plant Response. Sensors, 2016, 16, 498. | 2.1 | 35 |
| 26 | Electrochemical properties of lignin/polypyrrole composites and their carbonized analogues. Materials Chemistry and Physics, 2018, 213, 352-361. | 2.0 | 35 |
| 27 | Acid Blue dyes in polypyrrole synthesis: The control of polymer morphology at nanoscale in the promotion of high conductivity and the reduction of cytotoxicity. Synthetic Metals, 2018, 237, 40-49. | 2.1 | 35 |
| 28 | Conducting polyanilineâ€“montmorillonite composites. Synthetic Metals, 2010, 160, 2596-2604. | 2.1 | 33 |
| 29 | Writing in a Polyaniline Film with Laser Beam and Stability of the Record: A Raman Spectroscopy Study. International Journal of Polymer Science, 2018, 2018, 1-8. | 1.2 | 33 |
| 30 | In-situ prepared polyanilineâ€“silver composites: Single- and two-step strategies. Electrochimica Acta, 2014, 122, 259-266. | 2.6 | 32 |
| 31 | Colloids of polypyrrole nanotubes/nanorods: A promising conducting ink. Synthetic Metals, 2016, 221, 67-74. | 2.1 | 32 |
| 32 | Synergistic conductivity increase in polypyrrole/molybdenum disulfide composite. Polymer, 2018, 150, 130-137. | 1.8 | 32 |
| 33 | Synthesis and characterization of polyaniline/BEA zeolite composites and their application in nicosulfuron adsorption. Microporous and Mesoporous Materials, 2019, 287, 234-245. | 2.2 | 31 |
| 34 | Conducting polyaniline based cell culture substrate for embryonic stem cells and embryoid bodies. RSC Advances, 2015, 5, 50328-50335. | 1.7 | 30 |
| 35 | Exploring the Critical Factors Limiting Polyaniline Biocompatibility. Polymers, 2019, 11, 362. | 2.0 | 30 |
| 36 | Polyaniline-coated silver nanowires. Reactive and Functional Polymers, 2010, 70, 656-662. | 2.0 | 29 |

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|---|---|---|---|
| 37 | Towards conducting inks: Polypyrroleâ€“silver colloids. Electrochimica Acta, 2014, 122, 296-302. | 2.6 | 29 |
| 38 | Conducting polymer composite aerogel with magnetic properties for organic dye removal. Synthetic Metals, 2020, 260, 116266. | 2.1 | 29 |
| 39 | The composites of silver with globular or nanotubular polypyrrole: The control of silver content. Synthetic Metals, 2015, 209, 105-111. | 2.1 | 27 |
| 40 | Tailoring of carbonized polypyrrole nanotubes core by different polypyrrole shells for oxygen reduction reaction selectivity modification. Journal of Colloid and Interface Science, 2019, 551, 184-194. | 5.0 | 27 |
| 41 | Enhanced pH stability of conducting polyaniline by reprotonation with perfluorooctanesulfonic acid. Synthetic Metals, 2013, 178, 52-55. | 2.1 | 26 |
| 42 | Biocompatible and antibacterial gelatin-based polypyrrole cryogels. Polymer, 2020, 197, 122491. | 1.8 | 26 |
| 43 | Biological properties of printable polyaniline and polyanilineâ€“silver colloidal dispersions stabilized by gelatin. Synthetic Metals, 2017, 232, 52-59. | 2.1 | 24 |
| 44 | Conducting macroporous polyaniline/poly(vinyl alcohol) aerogels for the removal of chromium(VI) from aqueous media. Chemical Papers, 2020, 74, 3183-3193. | 1.0 | 24 |
| 45 | Polyaniline colloids stabilized with bioactive polysaccharides: Non-cytotoxic antibacterial materials. Carbohydrate Polymers, 2019, 219, 423-430. | 5.1 | 23 |
| 46 | Highly conducting and biocompatible polypyrrole/poly(vinyl alcohol) cryogels. Synthetic Metals, 2019, 252, 122-126. | 2.1 | 23 |
| 47 | Polyaniline-metal organic framework (Fe-BTC) composite for electrochemical applications. Polymer, 2020, 208, 122945. | 1.8 | 22 |
| 48 | Highly conducting 1-D polypyrrole prepared in the presence of safranin. Journal of Materials Chemistry C, 2020, 8, 12140-12147. | 2.7 | 22 |
| 49 | The evolution of the molecular structure of polypyrrole during chemical polymerization. Synthetic Metals, 2021, 271, 116608. | 2.1 | 22 |
| 50 | The preparation of conducting polyanilineâ€“silver and poly(p-phenylenediamine)â€“silver nanocomposites in liquid and frozen reaction mixtures. Journal of Solid State Electrochemistry, 2011, 15, 2361-2368. | 1.2 | 20 |
| 51 | Blood coagulation and platelet adhesion on polyaniline films. Colloids and Surfaces B: Biointerfaces, 2015, 133, 278-285. | 2.5 | 19 |
| 52 | Phosphorus and nitrogen-containing carbons obtained by the carbonization of conducting polyaniline complex with phosphites. Electrochimica Acta, 2017, 246, 443-450. | 2.6 | 19 |
| 53 | Polyanilineâ€“maghemite based dispersion: Electrical, magnetic properties and their cytotoxicity. Synthetic Metals, 2016, 214, 23-29. | 2.1 | 18 |
| 54 | The biocompatibility of polyaniline and polypyrrole 2 : Doping with organic phosphonates. Materials Science and Engineering C, 2020, 113, 110986. | 3.8 | 18 |

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|---|---|---|---|
| 55 | Conducting composites prepared by the reduction of silver ions with poly(pâ€phenylenediamine). Polymer International, 2015, 64, 496-504. | 1.6 | 17 |
| 56 | Methyl red dye in the tuning of polypyrrole conductivity. Polymer, 2020, 207, 122854. | 1.8 | 16 |
| 57 | Poly(3,4â€ethylenedioxythiophene):Poly(styrene sulfonate) in antibacterial, tissue engineering and biosensors applications: Progress, challenges and perspectives. Journal of Applied Polymer Science, 2022, 139, . | 1.3 | 16 |
| 58 | Magnetoconductive maghemite core/polyaniline shell nanoparticles: Physico-chemical and biological assessment. Colloids and Surfaces B: Biointerfaces, 2016, 141, 382-389. | 2.5 | 15 |
| 59 | Colloidal dispersions of conducting copolymers of aniline and p-phenylenediamine for films with enhanced conductometric sensitivity to temperature. Journal of Materials Chemistry C, 2017, 5, 1668-1674. | 2.7 | 15 |
| 60 | Interfaced conducting polymers. Synthetic Metals, 2017, 224, 109-115. | 2.1 | 15 |
| 61 | Surface modification of tungsten disulfide with polypyrrole for enhancement of the conductivity and its impact on hydrogen evolution reaction. Applied Surface Science, 2019, 492, 497-503. | 3.1 | 15 |
| 62 | Structure and properties of polyaniline interacting with H-phosphonates. Synthetic Metals, 2017, 232, 79-86. | 2.1 | 14 |
| 63 | Carbogels: carbonized conducting polyaniline/poly(vinyl alcohol) aerogels derived from cryogels for electrochemical capacitors. Journal of Materials Chemistry A, 2019, 7, 1785-1796. | 5.2 | 14 |
| 64 | Poly(p-phenylenediamine)/maghemite composite as highly effective adsorbent for anionic dye removal. Reactive and Functional Polymers, 2020, 146, 104436. | 2.0 | 14 |
| 65 | The First Stages of Chemical and Electrochemical Aniline Oxidationâ€”Spectroscopic Comparative Study. Applied Sciences (Switzerland), 2020, 10, 2091. | 1.3 | 14 |
| 66 | Sponge-like polypyrroleâ€“nanofibrillated cellulose aerogels: synthesis and application. Journal of Materials Chemistry C, 2021, 9, 12615-12623. | 2.7 | 14 |
| 67 | Conducting materials prepared by the oxidation of p-phenylenediamine with p-benzoquinone. Journal of Solid State Electrochemistry, 2015, 19, 2653-2664. | 1.2 | 13 |
| 68 | Twin carbons: The carbonization of cellulose or carbonized cellulose coated with a conducting polymer, polyaniline. Carbon, 2016, 109, 836-842. | 5.4 | 13 |
| 69 | Electrical transport properties of poly(aniline-co-p-phenylenediamine) and its composites with incorporated silver particles. Chemical Papers, 2013, 67, . | 1.0 | 12 |
| 70 | Tuning the Conductivity, Morphology, and Capacitance with Enhanced Antibacterial Properties of Polypyrrole by Acriflavine Hydrochloride. ACS Applied Polymer Materials, 2021, 3, 6063-6069. | 2.0 | 12 |
| 71 | Charge transport and dielectric relaxation processes in aniline-based oligomers. Synthetic Metals, 2014, 192, 37-42. | 2.1 | 11 |
| 72 | Multifunctional polypyrrole@maghemite@silver composites: synthesis, physico-chemical characterization and antibacterial properties. Chemical Papers, 2018, 72, 1789-1797. | 1.0 | 11 |

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|---|---|---|---|
| 73 | Conducting polymer colloids, hydrogels, and cryogels: common start to various destinations. Colloid and Polymer Science, 2018, 296, 989-994. | 1.0 | 11 |
| 74 | Effect of structural features of polypyrrole (PPy) on electrical conductivity reflected on 13C ssNMR parameters. Synthetic Metals, 2020, 259, 116250. | 2.1 | 11 |
| 75 | Reduction of silver ions to silver with polyaniline/poly(vinyl alcohol) cryogels and aerogels. Chemical Papers, 2018, 72, 1619-1628. | 1.0 | 10 |
| 76 | Frozenâ€State Polymerization as a Tool in Conductivity Enhancement of Polypyrrole. Macromolecular Rapid Communications, 2020, 41, e2000364. | 2.0 | 10 |
| 77 | Cell-compatible conducting polyaniline films prepared in colloidal dispersion mode. Colloids and Surfaces B: Biointerfaces, 2017, 157, 309-316. | 2.5 | 9 |
| 78 | Oxidation of pyrrole with p-benzoquinone to semiconducting products and their application in electrorheology. New Journal of Chemistry, 2018, 42, 10167-10176. | 1.4 | 9 |
| 79 | Conducting composite cryogels based on poly(aniline-co-p-phenylenediamine) supported by poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ov | 2.1 | 9 |
| 80 | Enhancement of conductivity, mechanical and biological properties of polyaniline-poly(N-vinylpyrrolidone) cryogels by phytic acid. Polymer, 2021, 217, 123450. | 1.8 | 9 |
| 81 | Bi-hybrid coatings: polyaniline-montmorillonite filler in organic-inorganic polymer matrix. Chemical Papers, 2013, 67, . | 1.0 | 8 |
| 82 | Carbon Materials Derived from Poly(aniline-co-p-phenylenediamine) Cryogels. Polymers, 2020, 12, 11. | 2.0 | 8 |
| 83 | Modulation of Differentiation of Embryonic Stem Cells by Polypyrrole: The Impact on Neurogenesis. International Journal of Molecular Sciences, 2021, 22, 501. | 1.8 | 8 |
| 84 | Electropolymerized polypyrrole/safranin-O films: Capacitance enhancement. Polymer, 2021, 230, 124099. | 1.8 | 8 |
| 85 | Optimization of oxidant for polymerization of indole in water-ethanol medium. Polymer, 2022, 239, 124447. | 1.8 | 8 |
| 86 | Effect of 1,3-phenylenediamine concentration on the properties of poly(aniline-co-1,3-phenylenediamine) cryogels. Materials Letters, 2018, 229, 68-70. | 1.3 | 7 |
| 87 | In-Vitro Hemocompatibility of Polyaniline Functionalized by Bioactive Molecules. Polymers, 2019, 11, 1861. | 2.0 | 7 |
| 88 | Preparation of conducting polysiloxane/polyaniline composites. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 6 |
| 89 | Effect of initial freezing temperature and comonomer concentration on the properties of poly(aniline-co-m-phenylenediamine) cryogels supported by poly(vinyl alcohol). Colloid and Polymer Science, 2020, 298, 293-301. | 1.0 | 6 |
| 90 | Nitrogen-containing carbon enriched with tungsten atoms prepared by carbonization of polyaniline. Chemical Papers, 2021, 75, 5153-5161. | 1.0 | 6 |

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|---|---|---|---|
| 91 | Synthesis and Impedance Spectroscopy of Poly(p-phenylenediamine)/Montmorillonite Composites. Polymers, 2021, 13, 3132. | 2.0 | 6 |
| 92 | Characterization of Polyaniline-Based Ammonia Gas Sensors Prepared by Means of Spray Coating and Ink-Jet Printing. Sensor Letters, 2014, 12, 1620-1627. | 0.4 | 6 |
| 93 | Enhanced electrochemical performance of electrosynthesized fibrillar polypyrrole film. Materials Letters, 2022, 308, 131295. | 1.3 | 5 |
| 94 | Formation of bacterial and fungal biofilm on conducting polyaniline. Chemical Papers, 2017, 71, 505-512. | 1.0 | 4 |
| 95 | Application of Ink-Jet Printing and Spray Coating for the Fabrication of Polyaniline/Poly(N-Vinylpyrrolidone)-Based Ammonia Gas Sensor. Key Engineering Materials, 0, 644, 61-64. | 0.4 | 3 |
| 96 | One-step synthesis of polyanilineâ€“silver cryogels. Journal of Materials Science, 2020, 55, 10427-10434. | 1.7 | 3 |
| 97 | Electrorheology of aniline-oligomer suspensions under oscillatory shear. Journal of Physics: Conference Series, 2013, 412, 012007. | 0.3 | 2 |
| 98 | Progress in research and applications of conducting polymers: topical issue. Chemical Papers, 2021, 75, 4979-4980. | 1.0 | 2 |
| 99 | Macroporous nitrogen-containing carbon for electrochemical capacitors. Electrochimica Acta, 2022, 418, 140370. | 2.6 | 2 |
| 100 | Explosive hazards in polyaniline chemistry. Chemical Papers, 2017, 71, 387-392. | 1.0 | 1 |
| 101 | Trends in science and applications of conducting polymers: topical issue. Chemical Papers, 2017, 71, 177-177. | 1.0 | 1 |
| 102 | Cytotoxicity of poly(p-phenylenediamine). Chemical Papers, 2017, 71, 367-372. | 1.0 | 1 |
| 103 | Tuning of hydrophobicity of conducting films cast from polyaniline-phytic acid-poly(N-vinylpyrrolidone) dispersions. Progress in Organic Coatings, 2022, 163, 106666. | 1.9 | 1 |
| 104 | Nanostructured poly(N-methyl pyrrole) with enhanced conductivity and capacitance. Synthetic Metals, 2022, 290, 117134. | 2.1 | 1 |
| 105 | Assessment of the properties of diethyl phosphite as a novel anticorrosion pigment in organic coatings. Chemical Papers, 2017, 71, 423-438. | 1.0 | 0 |