

# Voravee P Hoven

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,478  
citations

279798

23  
h-index

315739

38  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2445  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Immobilization of Biomolecules on the Surface of Electrospun Polycaprolactone Fibrous Scaffolds for Tissue Engineering. ACS Applied Materials & Interfaces, 2009, 1, 1076-1085.                           | 8.0  | 137       |
| 2  | Enhancing antibacterial activity of chitosan surface by heterogeneous quaternization. Carbohydrate Polymers, 2011, 83, 868-875.   | 10.2 | 109       |
| 3  | Surface-quaternized chitosan particles as an alternative and effective organic antibacterial material. Colloids and Surfaces B: Biointerfaces, 2012, 92, 121-129.   | 5.0  | 99        |
| 4  | Electrospun mat of tyrosine-derived polycarbonate fibers for potential use as tissue scaffolding material. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 1039-1056.                         | 3.5  | 94        |
| 5  | Comparison of DNA, aminoethylglycyl PNA and pyrrolidinyl PNA as probes for detection of DNA hybridization using surface plasmon resonance technique. Biosensors and Bioelectronics, 2010, 25, 1064-1069.  | 10.1 | 60        |
| 6  | Bacterial cellulose-based re-swella ble hydrogel: Facile preparation and its potential application as colorimetric sensor of sweat pH and glucose. Carbohydrate Polymers, 2021, 256, 117506.              | 10.2 | 52        |
| 7  | Tuning Hydrophobicity and Water Adhesion by Electrospinning and Silanization. Langmuir, 2011, 27, 3654-3661.  | 3.5  | 51        |
| 8  | Development of a Novel Antifouling Platform for Biosensing Probe Immobilization from Methacryloyloxyethyl Phosphorylcholine-Containing Copolymer Brushes. Langmuir, 2012, 28, 5872-5881.                  | 3.5  | 51        |
| 9  | Poly( <i>N</i> -isopropylacrylamide)-Stabilized Gold Nanoparticles in Combination with Tricationic Branched Phenylene-Ethynylene Fluorophore for Protein Identification. Langmuir, 2013, 29, 12317-12327. | 3.5  | 50        |
| 10 | Disposable paper-based electrochemical sensor using thiol-terminated poly(2-methacryloyloxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 472.  | 5.0  | 43        |
| 11 | Bacterial cellulose membrane conjugated with plant-derived osteopontin: Preparation and its potential for bone tissue regeneration. International Journal of Biological Macromolecules, 2020, 149, 51-59. | 7.5  | 42        |
| 12 | Thiolated pyrrolidinyl peptide nucleic acids for the detection of DNA hybridization using surface plasmon resonance. Biosensors and Bioelectronics, 2009, 24, 3544-3549.                                  | 10.1 | 41        |
| 13 | Alternating bioactivity of multilayer thin films assembled from charged derivatives of chitosan. Journal of Colloid and Interface Science, 2007, 316, 331-343.  | 9.4  | 37        |
| 14 | Detection of the shrimp pathogenic bacteria, <i>Vibrio harveyi</i> , by a quartz crystal microbalance-specific antibody based sensor. Sensors and Actuators B: Chemical, 2010, 145, 259-264.              | 7.8  | 35        |
| 15 | Surface-Grafted Poly(acrylic acid) Brushes as a Precursor Layer for Biosensing Applications: Effect of Graft Density and Swellability on the Detection Efficiency. Langmuir, 2012, 28, 5302-5311.         | 3.5  | 35        |
| 16 | Patterned Poly(acrylic acid) Brushes Containing Gold Nanoparticles for Peptide Detection by Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2015, 87, 10738-10746.  | 6.5  | 35        |
| 17 | Multilayer film assembled from charged derivatives of chitosan: Physical characteristics and biological responses. Journal of Colloid and Interface Science, 2012, 376, 177-188.                          | 9.4  | 32        |
| 18 | Introducing surface-tethered poly(acrylic acid) brushes as 3D functional thin film for biosensing applications. Colloids and Surfaces B: Biointerfaces, 2011, 86, 198-205.                                | 5.0  | 31        |

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|----|---|------|-----------|
| 19 | Amphiphilic quaternized chitosan: Synthesis, characterization, and anti-cariogenic biofilm property. <i>Carbohydrate Polymers</i> , 2022, 277, 118882.  | 10.2 | 31        |
| 20 | Clickable and Antifouling Platform of Poly[(propargyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (methacrylate)-<i>ran</i>-(2-methacrylate) copolymer. <i>Langmuir</i> , 2016, 32, 1184-1194.   | 3.5  | 30        |
| 21 | Activation of stable polymeric esters by using organo-activated acyl transfer reactions. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1353-1358.  | 2.3  | 29        |
| 22 | Positively charged polymer brush-functionalized filter paper for DNA sequence determination following Dot blot hybridization employing a pyrrolidiny peptide nucleic acid probe. <i>Analyst</i> , 2013, 138, 269-277.                         | 3.5  | 27        |
| 23 | Antifouling Stripes Prepared from Clickable Zwitterionic Copolymers. <i>Langmuir</i> , 2017, 33, 7028-7035.   | 3.5  | 27        |
| 24 | Cascade post-polymerization modification of single pentafluorophenyl ester-bearing homopolymer as a facile route to redox-responsive nanogels. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 94-102.                           | 9.4  | 23        |
| 25 | Conductive electrospun composite fibers based on solid-state polymerized Poly(3,4-ethylenedioxythiophene) for simultaneous electrochemical detection of metal ions. <i>Talanta</i> , 2022, 241, 123253.                                       | 5.5  | 23        |
| 26 | Synthesis and immobilization of thiolated pyrrolidiny peptide nucleic acids on gold-coated piezoelectric quartz crystals for the detection of DNA hybridization. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 215-221.               | 7.8  | 22        |
| 27 | Surface plasmon resonance study of PNA interactions with double-stranded DNA. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1918-1923.   | 10.1 | 22        |
| 28 | Simple Colorimetric Assay for <i>Vibrio parahaemolyticus</i> Detection Using Aptamer-Functionalized Nanoparticles. <i>ACS Omega</i> , 2020, 5, 21437-21442.   | 3.5  | 22        |
| 29 | Formation of thermo-sensitive and cross-linkable micelles by self-assembly of poly(pentafluorophenyl) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50 707 Td (methacrylate) copolymer. <i>Langmuir</i> , 2017, 33, 7028-7035.                     | 2.3  | 21        |
| 30 | Improving blood compatibility of natural rubber by UV-induced graft polymerization of hydrophilic monomers. <i>Journal of Applied Polymer Science</i> , 2009, 112, 208-217.   | 2.6  | 17        |
| 31 | Sequential post-polymerization modification of a pentafluorophenyl ester-containing homopolymer: a convenient route to effective pH-responsive nanocarriers for anticancer drugs. <i>Journal of Materials Chemistry B</i> , 2020, 8, 454-464. | 5.8  | 17        |
| 32 | Photocaged PNIPAM: A Light Tunable Thermal Responsive Polymer. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800104.  | 2.2  | 16        |
| 33 | Electrospinning and solid state polymerization: A simple and versatile route to conducting PEDOT composite films. <i>European Polymer Journal</i> , 2017, 96, 452-462.  | 5.4  | 13        |
| 34 | Gold Nanorods Stabilized by Biocompatible and Multifunctional Zwitterionic Copolymer for Synergistic Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2018, 15, 164-174.  | 4.6  | 13        |
| 35 | Polymer brushes in nanopores surrounded by silicon-supported tris(trimethylsiloxy)silyl monolayers. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 446-459.   | 9.4  | 10        |
| 36 | Synthesis of Poly(glycidyl 2-ylidene-acetate) and Functionalization by Nucleophilic Ring-Opening Reactions. <i>Macromolecules</i> , 2017, 50, 1415-1421.  | 4.8  | 10        |

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|----|--|------|-----------|
| 37 | Quaternized chitosan particles as ion exchange supports for label-free DNA detection using PNA probe and MALDI-TOF mass spectrometry. <i>Carbohydrate Polymers</i> , 2015, 131, 80-89.   | 10.2 | 9         |
| 38 | Upper Critical Solution Temperature Behavior of pH-Responsive Amphoteric Statistical Copolymers in Aqueous Solutions. <i>ACS Omega</i> , 2021, 6, 9153-9163.   | 3.5  | 9         |
| 39 | Protein patterning with antifouling polymer gel platforms generated using visible light irradiation. <i>Chemical Communications</i> , 2020, 56, 5472-5475.   | 4.1  | 8         |
| 40 | Core-functionalized nanoaggregates: preparation <i>via</i> polymerization-induced self-assembly and their applications. <i>New Journal of Chemistry</i> , 2021, 45, 12776-12791.   | 2.8  | 8         |
| 41 | Surface-immobilized plant-derived osteopontin as an effective platform to promote osteoblast adhesion and differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 816-824.   | 5.0  | 7         |
| 42 | Thermoresponsive and Active Functional Fiber Mats for Cultured Cell Recovery. <i>Biomacromolecules</i> , 2017, 18, 3714-3725.  | 5.4  | 5         |
| 43 | Biocompatible zwitterionic copolymer-stabilized magnetite nanoparticles: a simple one-pot synthesis, antifouling properties and biomagnetic separation. <i>RSC Advances</i> , 2018, 8, 37077-37084.                                    | 3.6  | 5         |
| 44 | Clickable Zwitterionic Copolymer as a Universal Biofilm-Resistant Coating. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900286.   | 3.6  | 5         |
| 45 | Filter paper grafted with epoxide-based copolymer brushes for activation-free peptide nucleic acid conjugation and its application for colorimetric DNA detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 851-859. | 5.0  | 5         |
| 46 | Separation and detection of mutans streptococci by using magnetic nanoparticles stabilized with a cell wall binding domain-conjugated polymer. <i>Analytical Methods</i> , 2018, 10, 3332-3339.  | 2.7  | 3         |
| 47 | Amphiphilic Chitosan Bearing Double Palmitoyl Chains and Quaternary Ammonium Moieties as a Nanocarrier for Plasmid DNA. <i>ACS Omega</i> , 2022, 7, 10056-10068.   | 3.5  | 3         |
| 48 | The Contribution of IUPAC to Polymer Science Education. <i>Journal of Chemical Education</i> , 2017, 94, 1618-1628.  | 2.3  | 2         |
| 49 | Nickel-Based Water-Soluble Metallopolymer for the Electrochemical Hydrogen Evolution Reaction in Neutral-pH Water. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5051-5060.  | 4.4  | 2         |