# Isabel Rodriguez

List of Publications by Year
in descending order

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|---|---|---|---|
| 68 papers | 2,358 citations | 159358 30 h-index | 214527 47 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 3207 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Resilient moth-eye nanoimprinted antireflective and self-cleaning TiO2 sputter-coated PMMA films. Applied Surface Science, 2022, 585, 152653. | 3.1 | 10 |
| 2 | Mechanoâ€Dynamic Analysis of the Bactericidal Activity of Bioinspired Mothâ€Eye Nanopatterned Surfaces. Advanced Materials Interfaces, 2022, 9, . | 1.9 | 4 |
| 3 | Bioinspired antireflective flexible films with optimized mechanical resistance fabricated by roll to roll thermal nanoimprint. Scientific Reports, 2021, 11, 2419. | 1.6 | 21 |
| 4 | Polystyrene Nanopillars with Inbuilt Carbon Nanotubes Enable Synaptic Modulation and Stimulation in Interfaced Neuronal Networks. Advanced Materials Interfaces, 2021, 8, 2002121. | 1.9 | 13 |
| 5 | Improved thermal stability of antireflective moth-eye topography imprinted on PMMA/TiO<sub>2</sub> surface nanocomposites. Nanotechnology, 2021, 32, 335302. | 1.3 | 1 |
| 6 | Microvessel-on-Chip Fabrication for the In Vitro Modeling of Nanomedicine Transport. ACS Omega, 2021, 6, 25109-25115. | 1.6 | 8 |
| 7 | Roll-to-roll nanoimprint lithography of high efficiency Fresnel lenses for micro-concentrator photovoltaics. Optics Express, 2021, 29, 34135. | 1.7 | 10 |
| 8 | On the nature of solvothermally synthesized carbon nanodots. Journal of Materials Chemistry C, 2021, 9, 16935-16944. | 2.7 | 11 |
| 9 | Multilevel Hierarchical Topographies by Combined Photolithography and Nanoimprinting Processes To Create Surfaces with Controlled Wetting. ACS Applied Nano Materials, 2019, 2, 4727-4733. | 2.4 | 17 |
| 10 | Engineered protein-based functional nanopatterned materials for bio-optical devices. Nanoscale Advances, 2019, 1, 3980-3991. | 2.2 | 17 |
| 11 | Flexible distributed feedback lasers based on nanoimprinted cellulose diacetate with efficient multiple wavelength lasing. Npj Flexible Electronics, 2019, 3, . | 5.1 | 22 |
| 12 | Fluorescent C-NanoDots for rapid detection of BRCA1, CFTR and MRP3 gene mutations. Mikrochimica Acta, 2019, 186, 293. | 2.5 | 8 |
| 13 | Moth-eye mimetic cytocompatible bactericidal nanotopography: a convergent design. Bioinspiration and Biomimetics, 2018, 13, 026011. | 1.5 | 27 |
| 14 | Nano-engineering safer-by-design nanoparticle based moth-eye mimetic bactericidal and cytocompatible polymer surfaces. RSC Advances, 2018, 8, 22606-22616. | 1.7 | 20 |
| 15 | Efficient Optical Gain from Nearâ€Infrared Polymer Lasers Based on Poly[Nâ€9â€²â€heptadecanylâ€2,7â€carbazoleâ€altâ€5,5â€(4â€²,7â€²â€diâ€2â€thienylâ€2â€²,1â€²,3â€²â€benzoth Optical Materials, 2018, 6, 1800263. | 3.3 | 22 |
| 16 | Single-imprint moth-eye anti-reflective and self-cleaning film with enhanced resistance. Nanoscale, 2018, 10, 15496-15504. | 2.8 | 38 |
| 17 | Highly pH-responsive sensor based on amplified spontaneous emission coupled to colorimetry. Scientific Reports, 2017, 7, 46265. | 1.6 | 3 |
| 18 | Multifunctional Nano-engineered Polymer Surfaces with Enhanced Mechanical Resistance and Superhydrophobicity. Scientific Reports, 2017, 7, 43450. | 1.6 | 17 |

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|---|---|---|---|
| 19 | Biomechanical Cell Regulation by High Aspect Ratio Nanoimprinted Pillars. Advanced Functional Materials, 2016, 26, 5599-5609. | 7.8 | 40 |
| 20 | Flexible all-polymer waveguide for low threshold amplified spontaneous emission. Scientific Reports, 2016, 6, 34565. | 1.6 | 26 |
| 21 | Lotus bioinspired superhydrophobic, selfâ€cleaning surfaces from hierarchically assembled templates. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 603-609. | 2.4 | 42 |
| 22 | Shear Adhesion Strength of Gecko-Inspired Tapes on Surfaces with Variable Roughness. Journal of Adhesion, 2013, 89, 921-936. | 1.8 | 13 |
| 23 | Microfluidic cell trap array for controlled positioning of single cells on adhesive micropatterns. Lab on A Chip, 2013, 13, 714. | 3.1 | 71 |
| 24 | Review: Micro- and nanostructured surface engineering for biomedical applications. Journal of Materials Research, 2013, 28, 165-174. | 1.2 | 77 |
| 25 | A portable labâ€onâ€aâ€chip instrument based on <scp>MCE</scp> with dual topâ€“bottom capacitive coupled contactless conductivity detector in replaceable cell cartridge. Electrophoresis, 2013, 34, 1390-1399. | 1.3 | 29 |
| 26 | Numerical study of dc-biased ac-electrokinetic flow over symmetrical electrodes. Biomicrofluidics, 2012, 6, 12817-1281710. | 1.2 | 6 |
| 27 | DC-biased AC-electrokinetics: a conductivity gradient driven fluid flow. Lab on A Chip, 2011, 11, 4241. | 3.1 | 20 |
| 28 | Fabrication and Analysis of Gecko-Inspired Hierarchical Polymer Nanosetae. ACS Nano, 2011, 5, 1897-1906. | 7.3 | 82 |
| 29 | Micropatterns of cell adhesive proteins with poly(ethylene oxide)â€blockâ€Poly(4â€vinylpyridine) diblock copolymer. Biotechnology and Bioengineering, 2011, 108, 983-987. | 1.7 | 5 |
| 30 | The effect of topography of polymer surfaces on platelet adhesion. Biomaterials, 2010, 31, 1533-1545. | 5.7 | 166 |
| 31 | Nanotubes-/nanowires-based, microfluidic-integrated transistors for detecting biomolecules. Microfluidics and Nanofluidics, 2010, 9, 1185-1214. | 1.0 | 28 |
| 32 | Capacitively coupled contactless conductivity detection with dual topâ€“bottom cell configuration for microchip electrophoresis. Electrophoresis, 2010, 31, 1063-1070. | 1.3 | 48 |
| 33 | Direct Detection of Heroin Metabolites Using a Competitive Immunoassay Based on a Carbonâ€Nanotube Liquidâ€Gated Fieldâ€Effect Transistor. Small, 2010, 6, 993-998. | 5.2 | 43 |
| 34 | Conformational behavior of fibrinogen on topographically modified polymer surfaces. Physical Chemistry Chemical Physics, 2010, 12, 10301. | 1.3 | 22 |
| 35 | Femtomolar detection of2,4-dichlorophenoxyacetic acidherbicidesvia competitive immunoassays using microfluidic based carbon nanotube liquid gated transistor. Lab on A Chip, 2010, 10, 634-638. | 3.1 | 48 |
| 36 | Investigation of sensing mechanism and signal amplification in carbon nanotube based microfluidic liquid-gated transistors via pulsating gate bias. Lab on A Chip, 2010, 10, 1454. | 3.1 | 2 |

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|---|---|---|---|
| 37 | Experimental verification of Faradaic charging in ac electrokinetics. Biomicrofluidics, 2009, 3, 022405. | 1.2 | 25 |
| 38 | Mimicking Dominoâ€Like Photonic Nanostructures on Butterfly Wings. Small, 2009, 5, 574-578. | 5.2 | 48 |
| 39 | Restrictive dual capacitively coupled contactless conductivity detection for microchip electrophoresis. Procedia Chemistry, 2009, 1, 1351-1354. | 0.7 | 3 |
| 40 | A novel nanostructured poly(lactic-co-glycolic-acid)â€“multi-walled carbon nanotube composite for blood-contacting applications: Thrombogenicity studies. Acta Biomaterialia, 2009, 5, 3411-3422. | 4.1 | 51 |
| 41 | Protein/carbon nanotubes interaction: The effect of carboxylic groups on conformational and conductance changes. Applied Physics Letters, 2009, 95, 073704. | 1.5 | 31 |
| 42 | DC-biased AC-electroosmotic and AC-electrothermal flow mixing in microchannels. Lab on A Chip, 2009, 9, 802-809. | 3.1 | 141 |
| 43 | Laminated, microfluidic-integrated carbon nanotube based biosensors. Applied Physics Letters, 2009, 94, 013107. | 1.5 | 34 |
| 44 | Fabrication of Adhesive Protein Micropatterns In Application of Studying Cell Surface Interactions. IFMBE Proceedings, 2009, , 1980-1983. | 0.2 | 0 |
| 45 | Thermally activated solvent bonding of polymers. Microsystem Technologies, 2008, 14, 753-759. | 1.2 | 52 |
| 46 | Platelet adhesion studies on nanostructured poly(lacticâ€coâ€glycolicâ€acid)â€“carbon nanotube composite. Journal of Biomedical Materials Research - Part A, 2008, 86A, 394-401. | 2.1 | 30 |
| 47 | Controlled Fabrication of Multitiered Threeâ€Dimensional Nanostructures in Porous Alumina. Advanced Functional Materials, 2008, 18, 2057-2063. | 7.8 | 56 |
| 48 | Modeling of dielectrophoretic force for moving dielectrophoresis electrodes. Journal of Electrostatics, 2008, 66, 514-525. | 1.0 | 34 |
| 49 | Cell Motion Model for Moving Dielectrophoresis. Analytical Chemistry, 2008, 80, 5454-5461. | 3.2 | 40 |
| 50 | Platelet Response on Poly(D,L -lactide-co-glycolide) (PLGA) Film with Nano-structured Fillers. , 2008, , . | | 1 |
| 51 | Dynamic Cell Fractionation and Transportation Using Moving Dielectrophoresis. Analytical Chemistry, 2007, 79, 6975-6987. | 3.2 | 52 |
| 52 | Fabrication of labâ€on chip platforms by hot embossing and photo patterning. Biotechnology Journal, 2007, 2, 1381-1388. | 1.8 | 21 |
| 53 | Fluidic lenses with variable focal length. Applied Physics Letters, 2006, 88, 041120. | 1.5 | 106 |
| 54 | Fabrication of PMMA micro- and nanofluidic channels by proton beam writing: electrokinetic and morphological characterization. Journal of Micromechanics and Microengineering, 2006, 16, 1170-1180. | 1.5 | 39 |

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| 55 | Isolated, sealed nanofluidic channels formed by combinatorial-mould nanoimprint lithography. Nanotechnology, 2006, 17, 1975-1980. | 1.3 | 35 |
| 56 | Experimental study and numerical estimation of current changes in electroosmotically pumped microfluidic devices. Electrophoresis, 2005, 26, 1114-1121. | 1.3 | 22 |
| 57 | Practical integration of polymerase chain reaction amplification and electrophoretic analysis in microfluidic devices for genetic analysis. Electrophoresis, 2003, 24, 172-178. | 1.3 | 54 |
| 58 | High-speed chiral separations on microchip electrophoresis devices. Electrophoresis, 2000, 21, 211-219. | 1.3 | 104 |
| 59 | Surface deactivation in protein and peptide analysis by capillary electrophoresis. Analytica Chimica Acta, 1999, 383, 1-26. | 2.6 | 133 |
| 60 | Microchannel electrophoretic separation of biogenic amines by micellar electrokinetic chromatography. Electrophoresis, 1999, 20, 118-126. | 1.3 | 42 |
| 61 | Enantiomeric separation of amino acids derivatized with fluoresceine isothiocyanate isomer I by micellar electrokinetic chromatography using Î²- and Î³-cyclodextrins as chiral selectors. Electrophoresis, 1999, 20, 1538-1545. | 1.3 | 42 |
| 62 | Ion-pair solid-phase extraction of biogenic amines before micellar electrokinetic chromatography with laser-induced fluorescence detection of their fluorescein thiocarbamyl derivatives. Electrophoresis, 1999, 20, 1862-1868. | 1.3 | 27 |
| 63 | Capillary electrophoresis separation of p-sulfonated calix[n]arenes, n=4,6,8. Talanta, 1998, 45, 683-691. | 2.9 | 6 |
| 64 | Liquid Chromatographic Separationa of Calixarenes. Journal of Liquid Chromatography and Related Technologies, 1997, 20, 1197-1209. | 0.5 | 5 |
| 65 | Conventional capillary electrophoresis in comparison with short-capillary capillary electrophoresis and microfabricated glass chip capillary electrophoresis for the analysis of fluorescein isothiocyanate anti-human immunoglobulin G. Journal of Chromatography A, 1997, 781, 287-293. | 1.8 | 33 |
| 66 | Separation of biogenic amines by micellar electrokinetic chromatography. Journal of Chromatography A, 1996, 745, 255-262. | 1.8 | 54 |
| 67 | DC-Biased AC-Electrokinetic Mixing: A Mechanistic Investigation. Advanced Materials Research, 0, 74, 109-112. | 0.3 | 2 |
| 68 | Enhanced Mechanical and Thermal Resistances of Nanoimprinted Antireflective Mothâ€Eye Surfaces Based on Poly Vinylidene Fluoride/TiO 2 Surface Nanocomposites. Advanced Engineering Materials, 0, , 2100603. | 1.6 | 2 |