

# Fedor Dultsev

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

454  
citations

1039406

9  
h-index

713013

21  
g-index

32  
all docs

32  
docs citations

32  
times ranked

340  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A QCM-based rupture event scanning technique as a simple and reliable approach to study the kinetics of DNA duplex dissociation. <i>Analytical Methods</i> , 2020, 12, 3771-3777.                      | 1.3 | 1         |
| 2  | An Instrument for Highly Specific Detection of Biomarkers on a Quartz Resonator. <i>Instruments and Experimental Techniques</i> , 2019, 62, 78-84.   | 0.1 | 0         |
| 3  | Silicon Nanopillar Microarrays: Formation and Resonance Reflection of Light. <i>Semiconductors</i> , 2019, 53, 205-209.  | 0.2 | 1         |
| 4  | Determination of the Thermodynamic Parameters of DNA Double Helix Unwinding with the Help of Mechanical Methods. <i>ACS Omega</i> , 2018, 3, 2793-2797.  | 1.6 | 2         |
| 5  | Reflection Spectra of Microarrays of Silicon Nanopillars. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50.2   | 0.2 | 2         |
| 6  | Effect of the relief on the measurement of bond rupture force with the help of AFM: the dynamics of interaction and optimization of the procedure. <i>Analytical Methods</i> , 2018, 10, 3498-3505.    | 1.3 | 2         |
| 7  | Shape of the Voltageâ€“Frequency Curve Depending on the Type of the Object Detached from the QCM Surface. , 2018, , 609-616.   |     | 0         |
| 8  | Measurement of the unwinding force of a DNA double helix. <i>Journal of Structural Chemistry</i> , 2017, 58, 315-339.  | 0.3 | 2         |
| 9  | Analysis of the surface functional groups of organic nanoparticles formed in furfural vapour photonucleation using a rupture event scanning technique. <i>Analytical Methods</i> , 2017, 9, 5348-5355. | 1.3 | 4         |
| 10 | Temperature dependence of unwinding forces between complementary oligonucleotides. <i>Journal of Microbiological Methods</i> , 2017, 143, 94-97.   | 0.7 | 0         |
| 11 | QCM-based rupture force measurement as a tool to study DNA dehybridization and duplex stability. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 891-901.                                   | 1.9 | 6         |
| 12 | Quartz crystal microbalance in the active mode as a tool to modify sensor surface for higher selectivity and sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 494-500.               | 4.0 | 2         |
| 13 | Optical and electrical properties of silicon nanopillars. <i>Semiconductors</i> , 2015, 49, 939-943.   | 0.2 | 5         |
| 14 | Rapid sensing of hepatitis B virus using QCM in the thickness shear mode. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 1-5.   | 4.0 | 14        |
| 15 | Identification of the functional groups on the surface of nanoparticles formed in photonucleation of aldehydes generated during forest fire events. <i>Proceedings of SPIE</i> , 2014, , .             | 0.8 | 2         |
| 16 | QCM-Based Measurement of Bond Rupture Forces in DNA Double Helices for Complementarity Sensing. <i>Langmuir</i> , 2014, 30, 3795-3801.   | 1.6 | 14        |
| 17 | Bond rupture force measurement by means of a quartz resonator. <i>Journal of Structural Chemistry</i> , 2012, 53, 449-459.   | 0.3 | 1         |
| 18 | New Procedure to Record the Rupture of Bonds between Macromolecules and the Surface of the Quartz Crystal Microbalance (QCM). <i>Langmuir</i> , 2012, 28, 13793-13797.                                 | 1.6 | 11        |

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|----|---|-----|-----------|
| 19 | Separation and detection of bacteria using rupture event scanning. <i>Analytica Chimica Acta</i> , 2011, 702, 233-238.  | 2.6 | 8         |
| 20 | Quartz crystal microbalance as a sensing active element for rupture scanning within frequency band. <i>Analytica Chimica Acta</i> , 2011, 687, 75-81.                                 | 2.6 | 15        |
| 21 | Dependence of the reactivity of alkyl-doped silicon dioxide layers on the character of Si-O-Si bonding. <i>Journal of Structural Chemistry</i> , 2009, 50, 593-598.                   | 0.3 | 2         |
| 22 | Identifying a single biological nano-sized particle using a quartz crystal microbalance. A mathematical model. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 17-24.           | 4.0 | 18        |
| 23 | XPS investigation of InAs etching in planar inductively coupled plasma. , 2009, , .   |     | 0         |
| 24 | EPR as a Diagnostic Tool To Verify Semiempirical Simulation of the Reactivity of Nitrones as Spin Traps. <i>Applied Magnetic Resonance</i> , 2008, 33, 95-101.                        | 0.6 | 0         |
| 25 | Reaction of hydrogen with chlorine during reactive ionic etching. <i>Russian Journal of Physical Chemistry B</i> , 2007, 1, 232-235.  | 0.2 | 3         |
| 26 | Silicon dioxide surface reconstruction stimulated by adsorption interaction. <i>Journal of Structural Chemistry</i> , 2007, 48, 231-235.  | 0.3 | 6         |
| 27 | Structure of adsorption complex: Modeling and experiment. <i>Journal of Structural Chemistry</i> , 2006, 47, 563-566.   | 0.3 | 6         |
| 28 | Direct and Quantitative Detection of Bacteriophage by $\alpha$ -Surface Detachment Using a Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 2001, 73, 3935-3939.            | 3.2 | 67        |
| 29 | Direct and sensitive detection of a human virus by rupture event scanning. <i>Nature Biotechnology</i> , 2001, 19, 833-837.   | 9.4 | 178       |
| 30 | $\alpha$ -Bond Breakage. Measurement of Bond Rupture Forces Using a Quartz Crystal Microbalance. <i>Langmuir</i> , 2000, 16, 5036-5040.   | 1.6 | 70        |
| 31 | Irregular Surface and Porous Structure of SiO <sub>2</sub> Films Deposited at Low Temperature and Low Pressure. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2569-2572. | 1.3 | 11        |
| 32 | Determining the structure and shape of nanoclusters obtained by sulfidizing Langmuir- Blodgett layers. <i>Journal of Structural Chemistry</i> , 1997, 38, 673-677.                    | 0.3 | 1         |