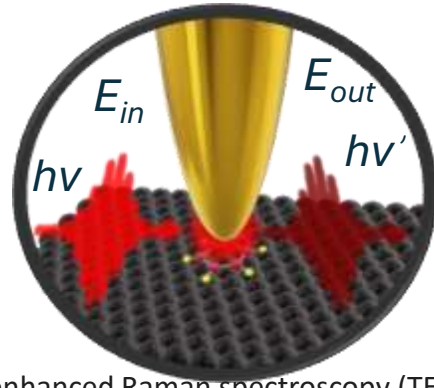
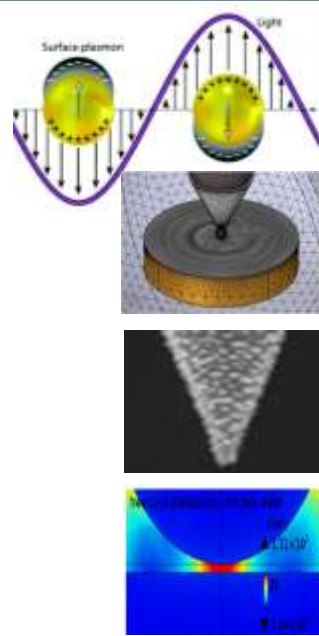


Methods

$$\mu(\omega) = \alpha E(\omega)$$

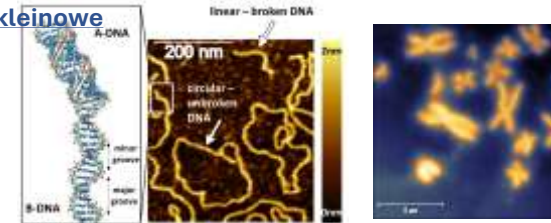


- Tip-enhanced Raman spectroscopy (TERS),
- Infrared nanospectroscopy (AFM-IR, nanoFTIR),
- Scanning probe microscopy (AFM, STM),
- Raman microspectroscopy,
- Infrared spectroscopy (ATR-FTIR, SR-FTIR),
- Theoretical methods, Molecular Dynamics, DFT, FEM/FEM,
- Multidimensional spectral data analysis, Chemometrics...

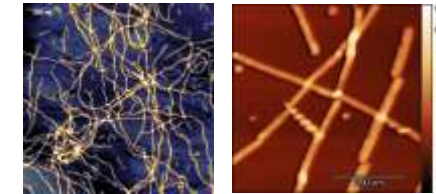


Applications and Publications

Kwasy
nukleinowe



Białka



Angewandte Chemie International Edition
(IF = 12.96)

Nanoscale
(IF=5.5)

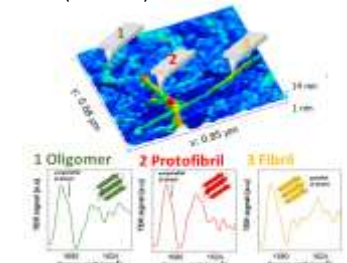
European Journal of Nuclear Medicine and
Molecular Imaging
(IF = 10.06)

International Journal of Molecular Sciences
(IF = 6.21)

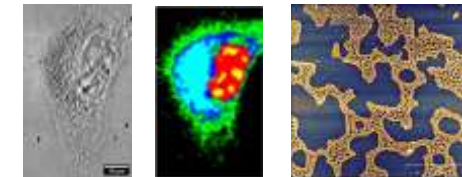
Scientific Reports
(IF = 4.99)

Measurement
(IF = 5.13)

Spectrochimica Acta Part A: Molecular and
Biomolecular Spectroscopy
(IF = 4.83)



Lipidy



Advances in Colloid
and Interface Science
(IF = 12.98)



Jadzia
Bizoń



Michał
Czaja



prof. Marek
Szymoński



Kamila
Sofińska



Dawid
Lupa



Kasia
Skirlińska-Nosek



Ewelina
Lipiec



Pan Piotr
Piątkowski



Sara
Seweryn



Marta
Urbańska



Karolina
Juzba

Projects



NARODOWE CENTRUM NAUKI



Collaborations



OPUS: Direct monitoring of the local dynamic rearrangement of the Alzheimer's peptides secondary structure upon the aggregation

PRELUDIUM BIS: Nanospectroscopic investigation into DNA local structural transitions upon oxidative damage and its repair

SONATA: Tracing the fibrillation mechanism by nanospectroscopic profiling of structure-dependent tau protein aggregation

PRELUDIUM: Lokalne zmiany molekularnej struktury amyloidu- β wywołane przez aktywne składniki zielonej herbaty