

Scientific publications from the Journal Citation Reports database (JRC)

	MNiSW	IF	Finance from
1. E. Szczęśni-Małysiak, J. Dybas, A. Blat, K. Bulat, K. Kuś, M. Kaczmarska, A. Wajda, K. Malek, S. Chłopicki, K.M. Marzec* , <i>Irreversible alterations in the hemoglobin structure affect oxygen binding in human packed red blood cells</i> , BBA - Molecular Cell Research 2020 , 118803.	140	4.105	Lider, NCBiR
2. J. Dybas, M. J. Bokamper, K.M. Marzec*, P. J. Mak* , <i>Probing the structure-function relationship of hemoglobin in living human red blood cells</i> , Spectrochim. Acta A 2020 , 239, 118530.	100	3.232	Opus, NCN Etiuda, NCN
3. K. Chrabaszcz, T. Meyer, H. Bae, M. Schmitt, A. Jasztal, M. Smeda, M. Stojak, J. Popp, K. Malek, K.M. Marzec* , <i>Comparison of standard and HD FT-IR with multimodal CARS/TPEF/SHG/FLIMS imaging in the detection of the early stage of pulmonary metastasis of murine breast cancer</i> , Analyst 2020 , 145, 4982-4990.	100	3.978	Juventus Plus, MNiSW
4. M. Kaczmarska, M. Grosicki, K. Bulat, M. Mardyla, E. Szczęśni-Małysiak, A. Blat, J. Dybas, T. Sacha, K.M. Marzec* , <i>Temporal sequence of the human RBCs' vesiculation observed in nano-scale with application of AFM and complementary techniques</i> , Nanomedicine: NBM 2020 , 28, 102221.	140	5.182	Lider, NCBiR
5. S. Fornasaro, F. Alsamad, M. Baia, L.A.E. Batista de Carvalho, C. Beleites, H.J. Byrne, A. Chiadò, M. Chis, M. Chisanga, A. Daniel, J. Dybas , G. Eppe, G. Falgayrac, H. Gebavi, K. Faulds, H. Gebavi, F. Giorgis, R. Goodacre, D. Graham, P. La Manna, S. Laing, L. Litti, F.M. Lyng, K. Malek, C. Malherbe, M.P.M. Marques, M. Meneghetti, E. Mitri, V.M. Grosev, C. Morasso, H. Muhamadali, P. Musto, C. Novara, M. Pannico, G. Penel, O. Piot, T. Rindzevicius, E. Rusu, M.S. Schmidt, V. Sergio, G.D. Sockalingum, V. Untereiner, R. Vanna, E. Wiercigroch, A. Bonifacio*, <i>Surface Enhanced Raman Spectroscopy for quantitative analysis: results of a large-scale European multi-instrument interlaboratory study</i> , Anal. Chem. 2020 , 92, 5, 4053–4064.	140	6.785	
6. E. Bik, M. Ishigaki, A. Blat , A. Jasztal, Y. Ozaki, K. Malek*, M. Baranska*, <i>Lipid droplets composition varies upon Medaka fish eggs development as revealed by NIR-, MIR- and Raman imaging</i> , Molecules 2020 , 25(4), 817.	100	3.267	
7. K. Bulat, J. Dybas, M. Kaczmarska, A. Rygula, A. Jasztal, E. Szczęśni-Małysiak, M. Baranska, B. R. Wood, K.M. Marzec* , <i>Multimodal detection and analysis of a new type of advanced Heinz body-like aggregate (AHBA) and cytoskeleton deformation in human RBCs</i> , Analyst 2020 , 145, 1749-1758.	100	3.978	Lider, NCBiR

8. K. Chrabaszczyk, K. Kaminska, K. Augustyniak, M. Kujdowicz, M. Smeda, A. Jasztal, M. Stojak, K.M. Marzec , K. Malek*, <i>Tracking extracellular matrix remodeling in lungs induced by breast cancer metastasis. Fourier Transform Infrared spectroscopic studies</i> , Molecules 2020 , <i>25</i> , 236.	100	3.267	Juventus Plus, MNIiSW
9. A. Blat, J. Dybas , K. Chrabaszczyk, K. Bulat , A. Jasztal, M. Kaczmarśka , T. Popiela, A. Slowik, K. Malek, M. G. Adamski, K.M. Marzec* , <i>FTIR, Raman and AFM characterization of the clinically valid biochemical parameters of the thrombi in acute ischemic stroke</i> , Sci. Rep. 2019 , <i>9</i> , 15475.	140	4.011	Opus, NCN
10. E. Wiercigroch, A. Kisielewska, A. Blat , A. Wislocka, I. Piwoński, K. Malek*, <i>Photocatalytical decoration of thin titania coatings with silver nanostructures provides a robust and reproducible SERS signal</i> , J. Raman Spectrosc. 2019 , <i>50</i> , 1649–1660.	70	2.000	
11. A. Blat , E. Wiercigroch, M. Smeda, A. Wislocka, S. Chłopicki, K. Malek*, <i>FTIR spectroscopic signature of blood plasma in the progression of breast cancer with simultaneous metastasis to lungs</i> , J. Biophot. 2019 , <i>12</i> , e201900067.	100	3.032	
12. A. Blat, J. Dybas, M. Kaczmarśka , K. Chrabaszczyk, K. Bulat , R.B. Kostogrys, A. Cernescu, K. Malek*, K.M. Marzec* , <i>An Analysis of Isolated and Intact RBC Membranes - a Comparison of a Semiquantitative Approach by Means of FTIR, Nano-FTIR and Raman Spectroscopies</i> , Anal. Chem. 2019 , <i>91</i> (15), 9867–9874.	140	6.785	Opus, NCN
13. K. Augustyniak, K. Chrabaszczyk, A. Jasztal, M. Smeda, G. Quintas, J. Kuligowski, K.M. Marzec* , K. Malek*, <i>High- and Ultra-High definition of IR spectral histopathology gives an insight into chemical environment of lung metastases in breast cancer</i> , J. Biophot. 2019 , <i>12</i> (4), e201800345.	100	3.032	Juventus Plus, MNIiSW
14. A. Wajda* , W.H. Goldmann, R. Detsch, A.R. Boccaccini, M. Sitarz, <i>Influence of zinc ions on structure, bioactivity, biocompatibility and antibacterial potential of melt-derived and gel-derived glasses from CaO-SiO₂ system</i> , J. Non-Cryst. Solids 2019 , <i>511</i> , 86–99.	70	2.929	Etiuda, NCN
15. K. Chrabaszczyk, K. Kochan, A. Fedorowicz, A. Jasztal, E. Buczek, L. S. Leslie, R. Bhargava, K. Malek, S. Chłopicki, K.M. Marzec* , <i>FT-IR- and Raman-based biochemical profiling of the early stage of pulmonary metastasis of breast cancer in mice</i> , Analyst 2018 , <i>143</i> , 2042–2050.	40	3.976	Juventus Plus, MNIiSW
16. J. Dybas , P. Berkowicz, B. Proniewski, K. Dziedzic-Kocurek, J. Stanek, M. Baranska, S. Chłopicki*, K.M. Marzec* , <i>Spectroscopy-based characterization of Hb-NO adducts in human red blood cells exposed to NO-donor and endothelium-derived NO</i> , Analyst 2018 , <i>143</i> , 4335–4346.	40	3.976	Lider, NCBiR
17. Chrabaszczyk, A. Jasztal, M. Smeda, B. Zieliński, A. Blat, M. Diem, S. Chłopicki, K. Malek*, K.M. Marzec* , <i>Label-free FTIR</i>	40	4.328	Juventus Plus,

<i>spectroscopy detects and visualizes the early stage of pulmonary micrometastasis seeded from breast carcinoma, Biochim. Biophys. Acta– Mol. Basis Dis.</i> 2018 , 1864, 3574–3584.			MNiSW
18. D. Perez-Guaita, K.M. Marzec , A. Hudson, C. Evans, T. Chernenko, C. Matthäus, M. Miljkovic, M. Diem, P. Heraud, J. Richards, D. Andrew, D. Anderson, C. Doerig, J. Garcia-Bustos, D. McNaughton, B.R. Wood*, <i>Parasites under the spotlight: Applications of vibrational spectroscopy to malaria research</i> , Chem. Rev. 2018 , 118, 5330–5358.	50	54.301	Opus, NCN
19. J. Dybas , M. Grosicki, M. Baranska*, K.M. Marzec* , <i>Raman imaging of haem metabolism in situ in macrophages and Kupffer cells</i> , Analyst 2018 , 143, 3489–3498.	40	3.976	Opus, NCN
20. P. Heraud, M.F. Cowan, K.M. Marzec , B.L. Moller, C.K. Blomstedt, R. Gleadow*, <i>Label-free Raman hyperspectral imaging analysis localizes the cyanogenic glucoside dhurrin to the cytoplasm in sorghum cells</i> , Sci. Rep. 2018 , 8, 2691, 1–9.	40	4.011	-
21. E. Szafraniec, E. Wiercigroch, K. Czamara, K. Majzner, E. Staniszewska-Slezak, K.M. Marzec , K. Malek, A. Kaczor, M. Baranska*, <i>Diversity among endothelial cell lines revealed by Raman and Fourier-transform infrared spectroscopic imaging</i> , Analyst 2018 , 143, 4323–4334.	40	3.976	-
22. M. Acosta, R. Detsch, A. Grünewald, V. Rojas, J. Schultheiß, A. Wajda , R. Stark, S. Narayan, M. Sitarz, J. Koruza, A. Boccaccini, <i>Cytotoxicity, chemical stability, and surface properties of ferroelectric ceramics for biomaterials</i> , J. Am. Ceram. Soc. 2018 , 101(1), 440-449.	45	3.094	-
23. M. Gawęda, P. Jeleń, E. Długoń, A. Wajda , M. Leśniak, W. Simka, M. Sowa, R. Detsch, A. Boccaccini, M. Sitarz, <i>Bioactive layers based on black glasses on titanium substrates</i> , J. Am. Ceram. Soc. 2018 , 101(2), 590-601.	45	3.094	-
24. A. Wajda* , M. Sitarz, <i>Structural and microstructural comparison of bioactive melt-derived and gel-derived glasses from CaO-SiO₂ binary system</i> , Ceram. Int. 2018 , 44(8), 8856-8863.	40	3.450	Etiuda, NCN
25. M. Gawęda, P. Jeleń, E. Długoń, A. Wajda , M. Leśniak, W. Simka, M. Sowa, R. Detsch, A.R. Boccaccini, M. Sitarz, <i>Erratum to: Bioactive layers based on black glasses on titanium substrates</i> , J. Am. Ceram. Soc. 2018 , 101(7), 3246.	45	3.094	-
26. M. Gawęda, E. Długoń, P. Jeleń, R. Jadach, A. Wajda , M. Nocuń, M. Szymańska, M. Sitarz, <i>Examination of doped zirconia-based layers deposited on metallic substrates</i> , J. Mol. Struct. 2018 , 1166, 321-325.	20	2.120	-
27. A. Wajda* , W. Goldmann, R. Detsch, A. Grünewald, A.R. Boccaccini*, M. Sitarz, <i>Structural characterization and evaluation of antibacterial and angiogenic potential of gallium-containing</i>	40	3.450	Etiuda, NCN

melt-derived and gel-derived glasses from CaO-SiO ₂ system, <i>Ceram. Int.</i> 2018 , 44(18), 22698–22709.			
28. P. Heraud, K.M. Marzec , Q.H. Zhang, W. S. Yuen, J. Carroll, B.R. Wood*, <i>Label-free in vivo Raman microspectroscopic imaging of the macromolecular architecture of oocytes</i> , Sci. Rep. 2017 , 7, 8945, 1–10.	40	4.122	-
29. M. Dulski*, K.M. Marzec , J. Kusz, I. Galuska, K. Majzner, E. Galuskin, <i>Different route of hydroxide incorporation and thermal stability of new type of water clathrate: X-ray single crystal and Raman investigation</i> , Sci. Rep. 2017 , 7, 9046, 1–9.	40	4.122	-
30. K. Bulat , A. Rygula, E. Szafraniec, Y. Ozaki, M. Baranska*, <i>Live endothelial cells imaged by Scanning Near-field Optical Microscopy (SNOM): capabilities and challenges</i> , J. Biophot. 2017 , 10(6), 928–938.	35	3.768	-
31. M. Kaczmarska , D. Zydek, J. Wiklacz-Potoczny, M. Fornal, T. Gordzicki, E. Kochowska, K. Kozak, L. Gocal, W. Pohorecki, K. Matlak, J. Korecki, K. Burda, <i>Influence of very small doses of alpha radiation on the stability of erythrocytes</i> , Microscopy. Res. Tech. 2017 , 80 (1), 131–143.	25	1.087	-
32. E. Długoń, K. Pach, M. Gawęda, R. Jadach, A. Wajda , M. Leśniak, A. Benko, M. Dziadek, M. Sowa, W. Simka, M. Sitarz, <i>Anticorrosive ZrO₂ and ZrO₂-SiO₂ layers on titanium substrates for biomedical applications</i> , Surf. Coat. Tech. 2017 , 331, 221–229.	35	2.906	-
33. K.M. Marzec* , J. Dybas , S. Chlopicki, M. Baranska, <i>Resonance Raman in vitro detection and differentiation of the nitrite-induced hemoglobin adducts in functional human red blood cells</i> , J. Phys. Chem. B 2016 , 120, 12249–12260.	30	3.177	Go8 Fellowship
34. K. Kochan, K. Chrąbąszcz, B. Szczur, E. Maślak, J. Dybas , K.M. Marzec* , <i>IR and Raman imaging of murine brain from control and ApoE/LDLR–/– mice with advanced atherosclerosis</i> , Analyst 2016 , 141, 5329–5338.	40	3.885	Sonata, NCN
35. J. Dybas , K.M. Marzec , M. Z. Pacia, K. Kochan, K. Czamara, K. Chrąbąszcz, E. Staniszewska-Slezak, K. Malek, M. Baranska, A. Kaczor*, <i>Raman spectroscopy as a sensitive probe of soft tissue composition – imaging of cross-sections of various organs vs. single spectra of tissue homogenates</i> , Trends Anal. Chem. 2016 , 85, 117–127.	50	7.487	Sonata, NCN
36. S. Talu, S. Stach, M. Kaczmarska , M. Fornal, T. Grodzicki, W. Pohorecki, K. Burda*, <i>Multifractal characterization of morphology of human red blood cells membrane skeleton</i> , J. Microsc. 2016 , 262(1), 59–72.	35	1.692	NCN
37. M. Kaczmarska , I. Habina, A. Orzechowska, K. Niemiec-Murzyn, M. Fornal, W. Pohorecki, K. Matlak, J. Korecki, T. Grodzicki, K. Burda*, <i>Influence of neutron radiation on the stability of the erythrocyte membrane and oxyhemoglobin</i>	20	0.904	NCN

<i>formation – Petkau effect studies, Acta Phys. Pol. B</i> 2016 , 47 (2), 425–440.			
38. A. Wajda* , K. Bulat , M. Sitarz, <i>Structure and microstructure of the glasses from NaCaPO₄–SiO₂ and NaCaPO₄–SiO₂–AlPO₄ systems, J. Mol. Struct.</i> 2016 , 1126, 47–62.	20	1.753	-
39. A. Wajda , M. Sitarz, <i>Structural and microstructural studies of zinc-doped glasses from NaCaPO₄–SiO₂ system, J. Non-Cryst. Solids</i> 2016 , 441, 66–73.	30	2.124	
40. J. Suchanicz, V. Bovtun, E.M. Dutkiewicz, K. Konieczny, D. Sitko, K. Kluczewska, A. Wajda , A. Kalvane, A. Sternberg, <i>Dielectric, thermal and Raman spectroscopy studies of lead-free (Na_{0.5}Bi_{0.5})_{1-x}Sr_xTiO₃ (x = 0, 0.04 and 0.06) ceramics, Phase Transit.</i> 2016 , 89(7–8), 856–862.	20	1.060	-
41. M. Sitarz, M. Drąjewicz, R. Jadach, E. Długoń, M. Lesniak, M. Reben, A. Wajda , M. Gawęda, B. Burtan-Gwizdała, <i>Optical and Mechanical Characterization of Zirconium Based Sol-Gel Coatings on Glass, Arch. Metall. Mater.</i> 2016 , 61(4), 1747–1752.	30	0.571	-
42. K.M. Marzec* , A. Ryguła, B.R. Wood, S. Chłopicki, M. Baranska, <i>High-resolution Raman imaging reveals spatial location of heme oxidation sites in single RBCs of dried smears, J. Raman Spectrosc.</i> 2015 , 46, 76–83.	30	2.395	Sonata, NCN; Go8 Fellowship
43. T.P. Wrobel, K.M. Marzec , S. Chłopicki, E. Maślak, A. Jasztal, M. Franczyk-Żarów, I. Czyżyńska-Cichoń, T. Moszkowski, R.B. Kostogrys*, M. Baranska*, <i>Effects of low carbohydrate high protein (LCHP) diet on atherosclerotic plaque phenotype in ApoE/LDLR^{-/-} mice: FT-IR and raman imaging, Sci. Rep.</i> 2015 , 5, 14002, 1–9.	40	5.228	Sonata, NCN
44. K.M. Marzec* , K. Kochan, A. Fedorowicz, A. Jasztal, K. Chruszcz-Lipska, J.C. Dobrowolski, S. Chłopicki, M. Baranska, <i>Raman microimaging of murine lungs: insight into the vitamin A content, Analyst</i> 2015 , 140, 2171–2177.	40	4.033	Sonata, NCN
45. K.M. Marzec , A. Ryguła, M. Gąsior-Głogowska, K. Kochan, K. Czamara, K. Bulat , K. Malek, A. Kaczor, M. Baranska*, <i>Vascular diseases investigated ex vivo by using Raman, FT-IR and other methods, Pharm. Rep.</i> 2015 , 67, 744–750.	25	2.096	-
46. K. Kochan, K.M. Marzec , E. Maślak, S. Chłopicki, M. Baranska*, <i>Raman spectroscopic studies of vitamin A content in the liver: a biomarker of healthy liver, Analyst</i> 2015 , 140, 2074–2079.	40	4.033	Sonata, NCN
47. A.B. Andrews*, D. Wang, K.M. Marzec , O.C. Mullins, K.B. Crozier, <i>Surface enhanced Raman spectroscopy of polycyclic aromatic hydrocarbons and molecular asphaltenes, Chem. Phys. Lett.</i> 2015 , 620, 139–143.	25	1.897	-

48. D. Perez-Guaita, P. Heraud, K.M. Marzec , M. Guardia, M. Kiupel, B. R. Wood*, <i>Comparison of transfection and transmission FTIR imaging measurements performed on differentially fixed tissue sections</i> , Analyst 2015 , 140, 2376–2382.	40	4.033	-
49. M. Roman, K.M. Marzec , E. Grzebelus, P.W. Simon, M. Baranska, R. Baranski*, <i>Composition and (in)homogeneity of carotenoid crystals in carrot cells revealed by high resolution Raman imaging</i> , Spectrochim. Acta A: Mol. Biomol. Spectrosc. 2015 , 136(C), 1395–1400.	30	2.653	-
50. K.M. Marzec , D. Perez-Guaita, M. de Veij, D. McNaughton, M. Baranska, M.W.A. Dixon, L. Tilley, B.R. Wood*, <i>Red blood cells polarize green laser light revealing hemoglobin's enhanced non-fundamental Raman modes</i> , Chem. Phys. Chem. 2014 , 15, 3963–3968.	35	3.419	Sonata, NCN; Go8 Fellowship
51. K.M. Marzec , T. P. Wrobel, A. Ryguła, E. Maślak, A. Jasztal, A. Fedorowicz, S. Chłopicki, M. Baranska*, <i>Visualization of the biochemical markers of atherosclerotic plaque with the use of Raman, IR and AFM</i> , J. Biophot. 2014 , 7, 744–756.	35	4.447	-
52. A. Jaworska, K. Malek, K.M. Marzec , M. Baranska*, <i>An impact of the ring substitution in nicorandil on its adsorption on silver nanoparticles. SERS studies</i> , Spectrochim. Acta A: Mol. Biomol. Spectrosc. 2014 , 129, 624–631.	30	2.353	-
53. E.V. Galuskin*, I.O. Galuskina, J. Kusz, T. Armbruster, K.M. Marzec , P. Dzierżanowski, M. Muraszko, <i>Vapnikite Ca_3UO_6 – a new double perovskite mineral from pyrometamorphic larnite rocks</i> , Mineral. Mag. 2014 , 78, 571–581.	25	2.026	-
54. K. Bulat *, M. Sitarz, A. Wajda , <i>Influence of aluminium and boron ions on the crystallization of silicate-phosphate glasses from the $NaCaPO_4$-SiO_2 system</i> , J. Non-Cryst. Solids 2014 , 401, 207–212.	30	1.766	Preludium, NCN
55. A. Ryguła, K. Majzner, K.M. Marzec , A. Kaczor, M. Pilarczyk, M. Baranska*, <i>Raman spectroscopy of proteins: a review</i> , J. Raman Spectrosc. 2013 , 44, 1061–1076.	30	2.519	-
56. K. Kochan, K.M. Marzec , K. Chruszcz-Lipska, A. Jasztal, E. Maślak, H. Musiolik, S. Chłopicki, M. Baranska*, <i>Pathological changes in the biochemical profile of the liver in atherosclerosis and diabetes assessed by RS</i> , Analyst 2013 , 138, 3885–3890.	40	3.906	-
57. K.M. Marzec , A. Jaworska, K. Malek, A. Kaczor, M. Baranska*, <i>Substituent effect on structure and surface activity of N-methylpyridinium salts (FT-IR, FT-RS, SERS and DFT)</i> , J. Raman Spectrosc. 2013 , 44, 155–165.	30	2.519	-
58. M. Dulski*, A. Bulou, K.M. Marzec , E. V. Galuskin and R. Wrzalik, <i>Structural characterization of rondorfite, calcium silica chlorine mineral containing magnesium in tetrahedral position</i>	25	2.129	-

<i>[MgO₄]⁶⁻, with the aid of the vibrational spectroscopies and fluorescence, Spectrochim. Acta A: Mol. Biomol. Spectrosc.</i> 2013 , 101, 382–388.			
59. E. V. Galuskin*, J. Kusz, T. Armbruster, I. O. Galuskina, K.M. Marzec , Y. Vapnik, M. Murashko, <i>Actinides in Geology, Energy, and the Environment Vorlanite, (CaU⁶⁺)O₄, from Jabel Harmun, American Mineralogist</i> 2013 , 98, 1938–1942.	35	2.059	-
60. M. Kaczmarśka , M. Fornal, F.H. Messerli, J. Korecki, T. Grodzicki, K. Burda*, <i>Erythrocyte membrane properties in patients with essential hypertension</i> , Cell Biochem.Biophys. 2013 , 67 (3), 1089-102.	25	2.380	NCN
61. M. Sitarz*, K. Bulat , A. Wajda , M. Szumera, <i>Direct crystallization of silicate-phosphate glasses of NaCaPO₄–SiO₂ system</i> , J. Therm. Anal. Calorim. 2013 , 113(3), 1363-1368	20	2.206	Preludium, NCN
62. A. Jaworska, K. Malek, K.M. Marzec , M. Baranska*, <i>Nicotinamide and trigonelline studied with surface-enhanced FT-Raman spectroscopy</i> , Vib. Spec. 2012 , 66, 469–476.	25	1.747	-
63. T.P. Wrobel, K.M. Marzec , K. Majzner, K. Kochan, M. Bartus, S. Chłopicki, M. Baranska*, <i>Attenuated Total Reflection Fourier Transform Infrared (ATR–FTIR) spectroscopy of a single endothelial cell</i> , Analyst 2012 , 137, 4135–4139.	45	3.969	-
64. T. Armbruster*, B. Lazic, I.O. Galuskina, E.V. Galuskin, E. Gnos, K.M. Marzec , V.M. Gazeev, <i>Trabzonite Ca₄[Si₃O₉(OH)]OH : Crystal structure, revised formula, new occurrence, and relation to killalaite</i> , Mineral. Mag. 2012 , 76, 455–472.	20	2.219	-
65. M. Sitarz*, K. Bulat , M. Szumera, <i>Influence of modifiers and glass-forming ions on the crystallization of glasses of the NaCaPO₄–SiO₂ system</i> , J. Therm. Anal. Calorim. 2012 , 109(2), 577-584.	25	1.982	Preludium, NCN
66. M. Sitarz*, K. Bulat , Z. Olejniczak, <i>Structure and microstructure of glasses from a NaCaPO₄–SiO₂–BPO₄ system</i> , Vib. Spectrosc. 2012 , 61, 72-77.	25	1.747	Preludium, NCN
67. K. Niemiec, M. Kaczmarśka , M. Buczkowski, M. Fornal, W. Pohorecki, K. Matlak, J. Korecki, T. Grodzicki, K. Burda*, <i>Mössbauer studies of hemoglobin in erythrocytes exposed to neutron radiation</i> , Hyperfine Interact. 2012 , 206 (1-3), 95-100.	-	0.880	
68. K.M. Marzec , B. Gawel, K.K. Zborowski, W. Lasocha, L.M. Proniewicz*, K. Malek*, <i>Insight into coordination of dilead unit by molecules of 4-thiazolidinone–2-thione. Structural and computational studis</i> , Inorg. Chim. Act. 2011 , 376, 581–589.	27	1.846	-
69. K.M. Marzec , I. Reva, R. Fausto*, L. M. Proniewicz*, <i>Comparative Matrix Isolation Infrared Spectroscopy Study of</i>	35	2.946	Grant Promotorski MNiSW

<i>1,3– and 1,4-Diene Monoterpene</i> , J. Phys. Chem. A 2011 , 115 (17), 4342–4353.			
70. W. Jastrzebski*, M. Sitarz, M. Rokita, K. Bulat , <i>Infrared spectroscopy of different phosphates structures</i> , Spectrochim. Acta A: Molecular and Biomolecular Spectroscopy 2011 , 79(4), 722–727.	27	2.098	-
71. M. Kaczmarska , Z. Kopyscinska, M. Fornal, T. Gordzicki, K. Matlak, J. Korecki, K. Burda*, <i>Effects of low doses of gamma rays on the stability of normal and diabetic erythrocytes</i> , Acta Biochim. Pol. 2011 , 58 (4), 489–96.	15	1.491	
72. M. Sitarz*, K. Bulat , D. Suka, <i>Influence of modifiers and glass forming ions on the bioactivity of glasses in the NaCaPO₄–SiO₂ system</i> , Phys. Chem. Glasses - B 2011 , 52(3), 115–132.	27	0.628	-
73. K.M. Marzec , I. Reva, R. Fausto, K. Malek, L. M. Proniewicz*, <i>Conformational Space and Photochemistry of α-Terpinene</i> , J. Phys. Chem. A 2010 , 114, 5526–5536.	32	2.732	Grant Promotorski MNiSW
74. M. Sitarz*, K. Bulat , M. Szumera, <i>Aluminium influence on the crystallization and bioactivity of silico-phosphate glasses from NaCaPO₄–SiO₂ system</i> , J. Non-Cryst. Solids 2010 , 356(4–5), 224–231.	32	1.483	-
75. K.M. Marzec , B. Gawel, W. Lasocha, L.M. Proniewicz, K. Malek*, <i>Interaction model between rhodanine and silver species on a nanocolloidal surface and in the solid state</i> , J. Raman Spectrosc. 2009 , 41, 543–552.	32	3.137	-

B) Monographs, scientific publications in international and national journals other than those from the JRC database, listed in IIA

❖ **INTERNATIONAL:**

1. B.R. Wood, K. Kochan, **K.M. Marzec**, *Resonance Raman spectroscopy of hemoglobin in red blood cells*, Chapter 13 in *Vibrational Spectroscopy in Protein Research* Yukihiro Ozaki, Małgorzata Baranska, Igor Lednev, Bayden Wood (Eds.), **Elsevier 2020**, 375–414.
2. K. Majzner, K. Czamara, M. Z. Pacia, **J. Dybas**, E. Bik, K. Chrabaszcz, E. Wiercigroch, A. Dorosz, A. Wislocka, **K. M. Marzec**, K. Malek, M. Baranska, *Vibrational imaging of proteins: changes in the tissues and cells in the lifestyle disease studies*, Chapter 7 in *Vibrational Spectroscopy in Protein Research* Yukihiro Ozaki, Małgorzata Baranska, Igor Lednev, Bayden Wood (Eds.), **Elsevier 2020**, 177–218.
3. A. Kaczor, **K.M.Marzec**, K. Majzner, K. Kochan, M.Z.Pacia, M. Baranska*, *Raman Imaging of Biomedical Samples*, chapter 14 w *Confocal Raman Microscopy*, J. Toporski, T. Dieing, O. Hollricher (Eds.), **Springer Series in Surface Sciences 2018**, 307–346.

4. D. Perez-Guaita, M. de Veij, **K.M. Marzec**, A.R.D. Almohammedi, D. McNaughton, A.J. Hudson*, B.R. Wood*, *Resonance Raman and UV–Visible Microscopy Reveals that Conditioning Red Blood Cells with Repeated Doses of Sodium Dithionite Increases Haemoglobin Oxygen Uptake*, *Chemistry Select* 2017, 2 (11), 3342–3346 (Go8 Fellowship).
5. T.P. Wrobel, A. Fedorowicz, L. Mateuszuk, E. Maślak, A. Jasztal, S. Chłopicki, **K.M. Marzec***, *Vibrational microspectroscopy for analysis of atherosclerotic arteries*, rozdział 17 w Optical Spectroscopy and Computational Methods in Biology and Medicine, M. Baranska (Ed.), *Springer Series: Challenges and Advances in Computational Chemistry and Physics 2013*, 505–536 (ISBN 978–94–007–7831–3).

❖ NATIONAL:

6. English version:
K.M. Marzec*, J. Dybas, *Resonance Raman scattering spectroscopy in Vibrational spectroscopy. From theory to practice*. red. K. Malek, *Polish Scientific Publisher (PWN SA)*, 2016, Warszawa, str. 46–52 (ISBN: 978–83–01–18885–6).

Polish version:

K.M. Marzec*, J. Dybas, *Spektroskopia rezonansowego rozpraszania ramanowskiego w Spektroskopii oscylacyjnej. Od teorii do praktyki*. red. K. Malek, *Polish Scientific Publisher (PWN SA)*, 2016, Warszawa, str. 47–53 (ISBN: 978–83–01–18826–9).

7. English version:
K. Malek*, **K.M. Marzec**, *An effect of molecular symmetry and isotopic substitution on IR and Raman spectra of chloromethane derivatives* in Vibrational spectroscopy. From theory to practice. red. K. Malek, *Polish Scientific Publisher (PWN SA)*, 2016, Warszawa, str. 85–88 (ISBN: 978–83–01–18885–6).

Polish version:

K. Malek*, **K.M. Marzec**, *Symetria molekuły i wpływ podstawienia izotopowego w widmach IR i ramanowskich chloropochodnych metanu w Spektroskopii oscylacyjnej. Od teorii do praktyki*. red. K. Malek, *Polish Scientific Publisher (PWN SA)*, 2016, Warszawa, str. 86–90 (ISBN: 978–83–01–18826–9).

My contribution to this work includes formulating of the research goals, cooperation during the data analysis and preparation of the manuscript. I estimate my percentage share at 40%.

8. English version:
J. Dybas, A. Chmura-Skirlińska, **K.M. Marzec***, *Resonance Raman scattering spectroscopy in hemoglobin structure studies* in Vibrational spectroscopy. From theory to practice. red. K. Malek, *Polish Scientific Publisher (PWN SA)*, 2016, Warszawa, str. 185–192 (ISBN: 978–83–01–18885–6).

Polish version:

- J. Dybas, A. Chmura-Skirlińska, **K.M. Marzec***, *Spektroskopia rezonansowego rozpraszania ramanowskiego w badaniu struktury hemoglobiny w Spektroskopii oscylacyjnej*. Od teorii do praktyki. red. K. Malek, *Polish Scientific Publisher (PWN SA)* **2016**, str. 191–198 (ISBN: 978–83–01–18826–9).
9. **A. Wajda***, E. Długoń, M. Sitarz, *Direct crystallization of silicate-phosphate glass from NaMgPO₄-SiO₂ system*, **Inżynieria Biomaterialów (ang. Engineering of Biomaterials)** **2016**, 19 (138), 121.
10. **A. Wajda***, M. Sitarz, Charakterystyka szkieł pochodzenia żelowego z układu binarnego CaO-SiO₂ zawierających jony miedzi, **Materiały Ceramiczne (ang. Ceramic Materials)** **2016**, 68 (3), 280.
11. **A. Wajda***, M. Sitarz, Wpływ jonów antybakterijnych na właściwości termiczne szkieł krzemianowo-fosforanowych, **Materiały Ceramiczne (ang. Ceramic Materials)** **2016**, 68 (3), 280.
12. **A. Wajda***, **K. Bułat**, M. Sitarz, *Wpływ procesu kierowanej krystalizacji na bioaktywność szkieł krzemianowo-fosforanowych z układu NaCaPO₄-SiO₂*, **Materiały Ceramiczne (ang. Ceramic Materials)** **2015**, 67 (2), 127–131.
13. **K. Bułat***, M. Sitarz, J. Pszczoła, **A. Wajda**, *Krystalizacja szkieł krzemianowo-fosforanowych z układu NaCaPO₄-SiO₂-BPO₄*, **Materiały Ceramiczne (ang. Ceramic Materials)** **2014**, 66, 165–169.
14. M. Sitarz*, **K. Bułat**, J. Pszczoła, *Krystalizacja szkieł krzemianowo-fosforanowych z układu NaCaPO₄-SiO₂*, **Materiały Ceramiczne (ang. Ceramic Materials)** **2012**, 3, 364.
15. A. Jaworska, K. Malek, **K.M. Marzec**, M. Baranska*, *Analiza amidu kwasu 3-pirydylokarboksylowego (nikotynamidu) i jego pochodnych za pomocą spektroskopii Ramana* w Na pograniczu chemii i biologii (ang. At the threshold of chemistry and biology), T. XXVII, red. H. Koroniak, J. Barciszewski, *Scientific Publisher of the Adam Mickiewicz University*, 2011, Poznań, str. 19–28 (ISBN 978–83–232–2368–9).
16. **K. Bułat***, M. Sitarz, M. Gajewicz, *Mikrostruktura szkieł krzemianowo-fosforanowych z układu NaMgPO₄-SiO₂*, **Materiały Ceramiczne (ang. Ceramic Materials)** **2011**, 63, 391–395.
17. **K. Bułat***, M. Sitarz, M. Gajewicz, Z. Olejniczak, *Wpływ jonów B³⁺ na strukturę i teksturę szkieł krzemianowo-fosforanowych*, **Materiały Ceramiczne (ang. Ceramic Materials)** **2011**, 63, 386–390.
18. **K.M. Marzec**, M. Murowana, K. Turnau, L.M. Proniewicz*, M. Baranska*, *Analiza zarodników arbuskularnych grzybów mikoryzowych z rodzaju Glomus za pomocą spektroskopii Ramana*, w Na pograniczu Biologii i Chemii (ang. At the threshold of chemistry and biology), T. XXIII, red. H. Koroniak, J. Barciszewski, *Scientific Publisher of the Adam Mickiewicz University*, 2009, Poznań, str. 99–105 (ISBN 978–83–232–2114–2).

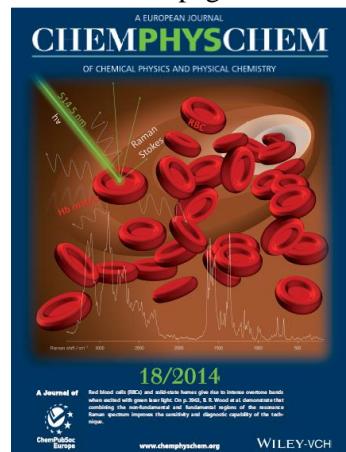
19. **K.M. Marzec**, L.M. Proniewicz*, *Charakterystyka wybranych monoterpenoidów – spektroskopia oscylacyjna i DFT, Na pograniczu Biologii i Chemii (ang. At the threshold of chemistry and biology)*, T. XXI, red. H. Koroniak, J. Barciszewski, *Scientific Publisher of the Adam Mickiewicz University, 2008*, Poznań, str. 161– 172 (ISBN 978–83–232–1968–2).
20. **K.M. Marzec**, K. Malek, L.M. Proniewicz*, *Rodanina i jej pochodne – zastosowanie i kierunek badań*, w *Na pograniczu chemii i biologii (ang. At the threshold of chemistry and biology)*, T. XIX, red. H. Koroniak, J. Barciszewski, *Scientific Publisher of the Adam Mickiewicz University, 2007*, Poznań, str. 97–104 (ISBN 978–83–232184–5–6).
21. **K.M. Marzec**, K. Malek, G. Schroeder, L.M. Proniewicz*, *Structural studies of rhodanine and its derivatives in means of vibrational, NMR spectroscopies and DFT*, w *Na pograniczu chemii i biologii (ang. At the threshold of chemistry and biology)*, T. XIX, red. H. Koroniak, J. Barciszewski, *Scientific Publisher of the Adam Mickiewicz University, 2007*, str. 105–116 (ISBN 978–83–232184–5–6).

❖ POST-CONFERENCE PUBLICATIONS:

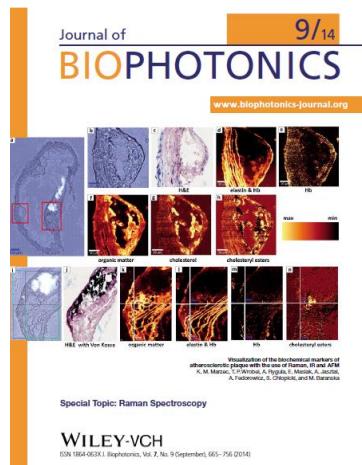
1. **K.M. Marzec**, B. Gaweł, W. Łasocha, L.M. Proniewicz*, K. Malek*, *Vibrational characterization of binding model of 4-thiazolidinone–2-thione with Pb₂²⁺ species*, Proceedings of XXII ICORS, AIP Conf. Proc. 2010, Vol. 1267 Issue 1, 586–587.
2. **K.M. Marzec**, I. Reva, R. Fausto, K. Malek, L. M. Proniewicz*, *Vibrational studies on conformational preferences of terpinene isomers in the equilibrium gas and condensed phases*, Proceedings of XXII ICORS, AIP Conf. Proc. 2010, Vol. 1267 Issue 1, 1145–1146.
3. K. Malek*, **K.M. Marzec**, K. Gebski, A. Kaczor, *Adsorption of rhodanine derivatives on silver and gold nanoparticle surfaces*, Proceedings of XXII ICORS, AIP Conf. Proc. 2010, Vol. 1267 Issue 1, 1025–1026.
4. **K.M. Marzec**, M. Murowana, K. Turnau, L.M. Proniewicz*, M. Baranska*, *Identification of Arbuscular Mycorrhizal Fungal (AMF) spore components*, **2010, AIP Conf. Proc.** 1267, 340–341.
5. E. Podstawka*, G. Niaura, **K.M. Marzec**, Y. Kim, L.M. Proniewicz, *Potential-dependent characterization of bombesin adsorbed on roughened Ag, Au, and Cu electrode surfaces*, **2010, AIP Conf. Proc.** 1267, 1029–1030.
6. **K. Bulat**, M. Sitarz*, *Structure of silicate-phosphate glasses studied by FTIR methods*, **Proc. XXII Int. Cong. Glass 2010**

C) Cover pages

1. The author of 2 cover pages:



K.M. Marzec, D. Perez-Guaita, M. de Veij, D. McNaughton, M. Baranska, M.W.A. Dixon, L. Tilley, B.R. Wood, Red blood cells polarize green laser light revealing hemoglobin's enhanced non-fundamental Raman modes, *Chem. Phys. Chem.*, 2014, 15(18):3963–8.



K.M. Marzec, T.P. Wrobel, A. Ryguła, E. Maślak, A. Jasztal, A. Fedorowicz, S.Chłopicki, M. Baranska, *Visualization of the biochemical markers of atherosclerotic plaque with the use of Raman, IR and AFM*, *J. Biophotonics*, 2014, 7(9), 744–756.