

Scientific publications from the Journal Citation Reports database (JRC)

	MNiSW	IF	Finance from
1. E. Szczesny-Malysiak , T. Mohaissen, K. Bulat , M. Kaczmarska , A. Wajda , K.M. Marzec* , <i>Sex-dependent membranopathy in stored human red blood cells</i> , Haematologica 2021 , 106.	140	9.941	Lider, NCBiR
2. J. Dybas , T. Chiura, K.M. Marzec , P.J. Mak, <i>Probing Heme Active Sites of Hemoglobin in Functional Red Blood Cells Using Resonance Raman Spectroscopy</i> , J. Phys. Chem. B 2021 , 125, 3556–3565.	140	2.991	Lider, NCBiR Preludium, NCN
3. A. Zimna , M. Kaczmarska* , E. Szczesny-Malysiak , A. Wajda , K. Bulat , F. C. Alcicek , M. Zygmunt, T. Sacha, K.M. Marzec* , <i>An insight into the stages of ion leakage during red blood cell storage</i> , Int. J. Mol. Sci. 2021 , 22(6), 2885.	140	5.923	Lider, NCBiR
4. A. Blat , T. Stepanenko, K. Bulat , A. Wajda , J. Dybas , T. Mohaissen, F.C. Alcicek , E. Szczesny-Malysiak , K. Malek, A. Fedorowicz, K.M. Marzec* , <i>Spectroscopic Signature of Red Blood Cells in the D-galactose-Induced Accelerated Aging Model</i> , Int. J. Mol. Sci. 2021 , 22(5), 2660.	140	5.923	Opus, NCN
5. J. Dybas , K. Bulat , A. Blat , T. Mohaissen, A. Wajda , M. Mardyla, M. Kaczmarska , M. Franczyk-Zarow, K. Malek, S. Chlopicki, K.M. Marzec* , <i>Age-related and atherosclerosis-related erythropathy in ApoE/LDLR–/– mice</i> , BBA - Molecular Basis of Disease 2020 , 1866 (12),165972.	140	5.187	Opus, NCN
6. E. Szczesny-Malysiak , J. Dybas , A. Blat , K. Bulat , K. Kuś, M. Kaczmarska , A. Wajda , K. Malek, S. Chlopicki, 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 , 1867(11), 118803.	140	4.739	Lider, NCBiR
7. 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	4.098	Opus, NCN Etiuda, NCN
8. K. Chrabaszcz , T. Meyer, H. Bae, M. Schmitt, A. Jaształ, 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	4.616	Juventus Plus, MNiSW
9. M. Kaczmarska , M. Grosicki, K. Bulat , M. Mardyla , E. Szczesny-Malysiak , 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	6.458	Lider, NCBiR

10.	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. Sergo, 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	6.986	
11.	E. Bik, M. Ishigaki, A. Blat , A. Jaształ, 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	4.411	
12.	K. Bulat , J. Dybas , M. Kaczmarska , A. Rygula, A. Jaształ, E. Szczesny-Malysiak , 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	4.616	Lider, NCBiR
13.	K. Chrabaszcz, K. Kaminska, K. Augustyniak, M. Kujdowicz, M. Smeda, A. Jaształ, 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 , 25, 236.	100	4.411	Juventus Plus, MNiSW
14.	A. Blat , J. Dybas , K. Chrabaszcz, K. Bulat , A. Jaształ, M. Kaczmarska , 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 , 9, 15475.	140	3.998	Opus, NCN
15.	E. Wiercigroch, A. Kisielewska, A. Blat , A. Wislocka, I. Piwoński, K. Malek*, <i>Photocatalytic decoration of thin titania coatings with silver nanostructures provides a robust and reproducible SERS signal</i> , J. Raman Spectrosc. 2019 , 50, 1649-1660.	70	2.000	
16.	A. Blat , E. Wiercigroch, M. Smeda, A. Wislocka, S. Chlopicki, K. Malek*, <i>FTIR spectroscopic signature of blood plasma in the progression of breast cancer with simultaneous metastasis to lungs</i> , J. Biophot. 2019 , 12, e201900067.	100	3.032	
17.	A. Blat , J. Dybas , M. Kaczmarska , K. Chrabaszcz, K. Bulat , R.B. Kostogryś, 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 , 91(15), 9867-9874.	140	6.785	Opus, NCN

18. K. Augustyniak, K. Chrabaszcz, A. Jaształ, 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 , 12(4), e201800345.	100	3.032	Juventus Plus, MNiSW
19. 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 , 511, 86-99.	70	2.929	Etiuda, NCN
20. K. Chrabaszcz, K. Kochan, A. Fedorowicz, A. Jaształ, E. Buczek, L. S. Leslie, R. Bhargava, K. Malek, S. Chlopicki, 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 , 143, 2042-2050.	40	4.019	Juventus Plus, MNiSW
21. J. Dybas , P. Berkowicz, B. Proniewski, K. Dziejcz-Kocurek, J. Stanek, M. Baranska, S.Chlopicki*, 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 , 143, 4335-4346.	40	4.019	Lider, NCBiR
22. Chrabaszcz, A. Jaształ, M. Smeda, B. Zieliński, A. Blat, M. Diem, S. Chlopicki, K. Malek*, K.M. Marzec* , <i>Label-free FTIR spectroscopy detects and visualizes the early stage of pulmonary micrometastasis seeded from breast carcinoma</i> , Biochim. Biophys. Acta- Mol. Basis Dis. 2018 , 1864, 3574-3584.	40	4.328	Juventus Plus, MNiSW
23. 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
24. 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	4.019	Opus, NCN
25. 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	-
26. 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	4.019	-
27. 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</i>	45	3.094	-

<i>properties of ferroelectric ceramics for biomaterials</i> , J. Am. Ceram. Soc. 2018 , 101(1), 440-449.			
28. 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	-
29. 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
30. 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	-
31. 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	-
32. 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 melt-derived and gel-derived glasses from CaO-SiO₂ system</i> , Ceram. Int. 2018 , 44(18), 22698-22709.	40	3.450	Etiuda, NCN
33. 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	-
34. M. Dulski*, K.M. Marzec , J. Kusz, I. Galuskina, 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	-
35. 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	-
36. 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	-
37. 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	-

38. 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
39. K. Kochan, K. Chrabaszcz, 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
40. J. Dybas , K.M. Marzec , M. Z. Pacia, K. Kochan, K. Czamara, K. Chrabaszcz, E. Staniszevska–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
41. 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
42. 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 formation – Petkau effect studies</i> , Acta Phys. Pol. B 2016 , 47 (2), 425-440.	20	0.904	NCN
43. A. Wajda* , K. Bulat , M. Sitarz, <i>Structure and microstructure of the glasses from NaCaPO₄–SiO₂ and NaCaPO₄–SiO₂–AlPO₄ systems</i> , J. Mol. Struct. 2016 , 1126, 47-62.	20	1.753	-
44. A. Wajda , M. Sitarz, <i>Structural and microstructural studies of zinc-doped glasses from NaCaPO₄–SiO₂ system</i> , J. Non-Cryst. Solids 2016 , 441, 66-73.	30	2.124	
45. J. Suchanicz, V. Bovtun, E.M. Dutkiewicz, K. Konieczny, D. Sitko, K. Kluczevska, 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</i> , Phase Transit. 2016 , 89(7-8), 856-862.	20	1.060	-
46. M. Sitarz, M. Drajevicz, 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</i> , Arch. Metall. Mater. 2016 , 61(4), 1747-1752.	30	0.571	-
47. K.M. Marzec* , A. Ryguła, B.R. Wood, S. Chlopicki, M. Baranska, <i>High-resolution Raman imaging reveals spatial location of heme oxidation sites in single RBCs of dried smears</i> , J. Raman Spectrosc. 2015 , 46, 76–83.	30	2.395	Sonata, NCN; Go8 Fellowship
48. T.P. Wrobel, K.M. Marzec , S. Chlopicki, E. Maślak, A. Jaształ, M. Franczyk–Żarów, I. Czyżyńska–Cichoń, T. Moszkowski, R.B.	40	5.228	Sonata, NCN

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</i> , Sci. Rep. 2015 , 5, 14002, 1–9.			
49. K.M. Marzec* , K. Kochan, A. Fedorowicz, A. Jaształ, K. Chruszcz–Lipska, J.C. Dobrowolski, S. Chlopicki, M. Baranska, <i>Raman microimaging of murine lungs: insight into the vitamin A content</i> , Analyst 2015 , 140, 2171–2177.	40	4.033	Sonata, NCN
50. K.M. Marzec , A. Ryguła, M. Gąsior–Glogowska, 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</i> , Pharm. Rep. 2015 , 67, 744–750.	25	2.096	-
51. K. Kochan, K.M. Marzec , E. Maślak, S. Chlopicki, M. Baranska*, <i>Raman spectroscopic studies of vitamin A content in the liver: a biomarker of healthy liver</i> , Analyst 2015 , 140, 2074–2079.	40	4.033	Sonata, NCN
52. 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</i> , Chem. Phys. Lett. 2015 , 620, 139–143.	25	1.897	-
53. D. Perez–Guita, 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	-
54. 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	-
55. K.M. Marzec , D. Perez–Guita, 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
56. K.M. Marzec , T. P. Wrobel, A. Ryguła, E. Maślak, A. Jaształ, A. Fedorowicz, S. Chlopicki, 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	-
57. 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	-
58. E.V. Galuskin*, I.O. Galuskina, J. Kusz, T. Armbruster, K.M. Marzec , P. Dzierżanowski, M. Muraszko, <i>Vapnikite Ca₃UO₆ – a</i>	25	2.026	-

<i>new double perovskite mineral from pyrometamorphic larnite rocks, Mineral. Mag. 2014, 78, 571–581.</i>			
59. K. Bulat* , M. Sitarz, A. Wajda , <i>Influence of aluminium and boron ions on the crystallization of silicate-phosphate glasses from the NaCaPO₄-SiO₂ system, J. Non-Cryst. Solids 2014, 401, 207-212.</i>	30	1.766	Preludium, NCN
60. A. Ryguła, K. Majzner, K.M. Marzec , A. Kaczor, M. Pilarczyk, M. Baranska*, <i>Raman spectroscopy of proteins: a review, J. Raman Spectrosc. 2013, 44, 1061–1076.</i>	30	2.519	-
61. K. Kochan, K.M. Marzec , K. Chruszcz–Lipska, A. Jaształ, 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, Analyst 2013, 138, 3885–3890.</i>	40	3.906	-
62. 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), J. Raman Spectrosc. 2013, 44, 155–165.</i>	30	2.519	-
63. M. Dulski*, A. Bulou, K.M. Marzec , E. V. Galuskin and R. Wrzałik, <i>Structural characterization of rondorfite, calcium silica chlorine mineral containing magnesium in tetrahedral position [MgO₄]⁶⁻, with the aid of the vibrational spectroscopies and fluorescence, Spectrochim. Acta A: Mol. Biomol. Spectrosc. 2013, 101, 382–388.</i>	25	2.129	-
64. 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 2013, 98, 1938–1942.</i>	35	2.059	-
65. M. Kaczmarska , M. Fornal, F.H. Messerli, J. Korecki, T. Grodzicki, K. Burda*, <i>Erythrocyte membrane properties in patients with essential hypertension, Cell Biochem. Biophys. 2013, 67 (3), 1089-102.</i>	25	2.380	NCN
66. M. Sitarz*, K. Bulat , A. Wajda , M. Szumera, <i>Direct crystallization of silicate-phosphate glasses of NaCaPO₄-SiO₂ system, J. Therm. Anal. Calorim. 2013, 113(3), 1363-1368</i>	20	2.206	Preludium, NCN
67. A. Jaworska, K. Malek, K.M. Marzec , M. Baranska*, <i>Nicotinamide and trigonelline studied with surface-enhanced FT–Raman spectroscopy, Vib. Spec. 2012, 66, 469–476.</i>	25	1.747	-
68. 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, Analyst 2012, 137, 4135–4139.</i>	45	3.969	-
69. 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</i>	20	2.219	-

<i>occurrence, and relation to killalaite, Mineral. Mag. 2012, 76, 455–472.</i>			
70. M. Sitarz*, K. Bulat , M. Szumera, <i>Influence of modifiers and glass-forming ions on the crystallization of glasses of the NaCaPO₄–SiO₂ system, J. Therm. Anal. Calorim. 2012, 109(2), 577-584.</i>	25	1.982	Preludium, NCN
71. M. Sitarz*, K. Bulat , Z. Olejniczak, <i>Structure and microstructure of glasses from a NaCaPO₄–SiO₂–BPO₄ system, Vib. Spectrosc. 2012, 61, 72-77.</i>	25	1.747	Preludium, NCN
72. K. Niemiec, M. Kaczmarska , M. Buczkowski, M. Fornal, W. Pohorecki, K. Matlak, J. Korecki, T. Gordzicki, K. Burda*, <i>Mössbauer studies of hemoglobin in erythrocytes exposed to neutron radiation, Hyperfine Interact. 2012. 206 (1-3), 95-100.</i>	-	0.880	
73. 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, Inorg. Chim. Act. 2011, 376, 581–589.</i>	27	1.846	-
74. K.M. Marzec , I. Reva, R. Fausto*, L. M. Proniewicz*, <i>Comparative Matrix Isolation Infrared Spectroscopy Study of 1,3- and 1,4-Diene Monoterpenes, J. Phys. Chem. A 2011, 115 (17), 4342–4353.</i>	35	2.946	Grant Promotorski MNiSW
75. W. Jastrzebski*, M. Sitarz, M. Rokita, K. Bulat , <i>Infrared spectroscopy of different phosphates structures, Spectrochim. Acta A: Molecular and Biomolecular Spectroscopy 2011, 79(4), 722-727.</i>	27	2.098	-
76. 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, Acta Biochim. Pol. 2011, 58 (4), 489-96.</i>	15	1.491	
77. M. Sitarz*, K. Bulat , D. Suka, <i>Influence of modifiers and glass forming ions on the bioactivity of glasses in the NaCaPO₄–SiO₂ system, Phys. Chem. Glasses - B 2011, 52(3), 115-132.</i>	27	0.628	-
78. K.M. Marzec , I. Reva, R. Fausto, K. Malek, L. M. Proniewicz*, <i>Conformational Space and Photochemistry of α-Terpinene, J. Phys. Chem. A 2010, 114, 5526–5536.</i>	32	2.732	Grant Promotorski MNiSW
79. M. Sitarz*, K. Bulat , M. Szumera, <i>Aluminium influence on the crystallization and bioactivity of silico-phosphate glasses from NaCaPO₄-SiO₂ system, J. Non-Cryst. Solids 2010, 356(4-5), 224-231.</i>	32	1.483	-
80. 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, J. Raman Spectrosc. 2009, 41, 543–552.</i>	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, Malgorzata Baranska, Igor Lednev, Bayden Wood (Eds.), **Elsevier 2020**, 375-414.
2. K. Majzner, K. Czamara, M. Z. Pacia, **J. Dybas**, E. Bik, K. Chrabaszczyk, 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, Malgorzata 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–Guita, M. de Veij, **K.M. Marzec**, A.R.D. Almohammed, 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. Jaształ, S. Chlopicki, **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 Spektroskopia oscylacyjna. 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 molekuly i wpływ podstawienia izotopowego w widmach IR i ramanowskich chloropochodnych metanu* w *Spektroskopia oscylacyjna. 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 *Spektroskopia oscylacyjna. 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 $\text{NaMgPO}_4\text{-SiO}_2$ system*, **Inżynieria Biomateriałów (ang. Engineering of Biomaterials) 2016**, 19 (138), 121.
10. **A. Wajda***, M. Sitarz, *Charakterystyka szkieł pochodzenia żelowego z układu binarnego CaO-SiO_2 zawierających jony miedzi*, **Materiały Ceramiczne (ang. Ceramic Materials) 2016**, 68 (3), 280.
11. **A. Wajda***, M. Sitarz, *Wpływ jonów antybakteryjnych na właściwości termiczne szkieł krzemianowo-fosforanowych*, **Materiały Ceramiczne (ang. Ceramic Materials) 2016**, 68 (3), 280.
12. **A. Wajda***, **K. Bulat**, M. Sitarz, *Wpływ procesu kierowanej krystalizacji na bioaktywność szkieł krzemianowo-fosforanowych z układu $\text{NaCaPO}_4\text{-SiO}_2$* , **Materiały Ceramiczne (ang. Ceramic Materials) 2015**, 67 (2), 127–131.
13. **K. Bulat***, M. Sitarz, J. Pszczoła, **A. Wajda**, *Krystalizacja szkieł krzemianowo-fosforanowych z układu $\text{NaCaPO}_4\text{-SiO}_2\text{-BPO}_4$* , **Materiały Ceramiczne (ang. Ceramic Materials) 2014**, 66, 165–169.
14. M. Sitarz*, **K. Bulat**, J. Pszczoła, *Krystalizacja szkieł krzemianowo-fosforanowych z układu $\text{NaCaPO}_4\text{-SiO}_2$* , **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 pogramiczu 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. Bulat***, M. Sitarz, M. Gajewicz, *Mikrostruktura szkieł krzemianowo-fosforanowych z układu $\text{NaMgPO}_4\text{-SiO}_2$* , **Materiały Ceramiczne (ang. Ceramic Materials) 2011**, 63, 391-395.
17. **K. Bulat***, M. Sitarz, M. Gajewicz, Z. Olejniczak, *Wpływ jonów B^{3+} 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 pogramiczu 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 monoterpenuidów – spektroskopia oscylacyjna i DFT, Na pogramiczu 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 pogramiczu 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 pogramiczu 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).

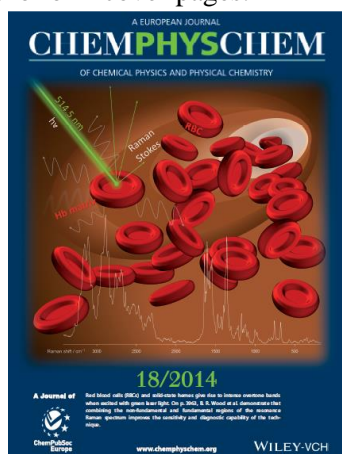
❖ **POST-CONFERENCE PUBLICATIONS:**

1. **K.M. Marzec**, B. Gawęł, W. Łasocha, L.M. Proniewicz*, K. Malek*, *Vibrational characterization of binding model of 4-thiazolidinone–2-thione with Pb^{2+} species*, Proceedings of XXII ICORS, AIP Conf. Proc. 2010, Vol. 1267 Issue 1, 586–587.

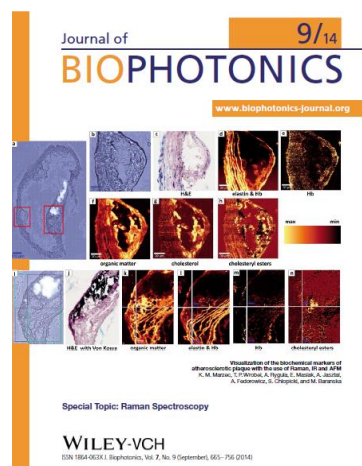
2. **K.M. Marzec**, I. Reva, R. Fausto, K. Malek, L. M. Proniewicz*, *Vibrational studies on conformational preferences of terpinene isomers in the equilibrium gas and condensed phases*, Proceedings of XXII ICORS, AIP Conf. Proc. 2010, Vol. 1267 Issue 1, 1145–1146.
3. K. Malek*, **K.M. Marzec**, K. Gebiski, 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–Guita, 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. Jaształ, A. Fedorowicz, S.Chlopicki, 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.