

Scientific publications from the Journal Citation Reports database (JRC)

	MNiSW	IF	Finance from
1. J. Dybas, K. Bulat, A. Blat , T. Mohaissen, M. Mardyla, M. Kaczmarska, A. Wajda , 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	4.352	Opus, NCN
2. 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	4.105	Lider, NCBiR
3. 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
4. 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 CARSTPEF/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
5. 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	5.182	Lider, NCBiR
6. 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	6.785	
7. 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	3.267	

8.	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	3.978	Lider, NCBiR
9.	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	3.267	Juventus Plus, MNiSW
10.	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	4.011	Opus, NCN
11.	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	
12.	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	
13.	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
14.	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
15.	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
16.	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	3.976	Juventus Plus, MNiSW
17.	J. Dybas , P. Berkowicz, B. Proniewski, K. Dziedzic-Kocurek, J. Stanek, M. Baranska, S. Chlopicki*, K.M. Marzec* ,	40	3.976	Lider, NCBiR

<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.			
18. Chrabąszcz, 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
19. 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
20. 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
21. 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	-
22. E. Szafraniec, E. Wiercigroch, K. Czamara, K. Majzner, E. Staniszevska-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	-
23. M. Acosta, R. Detsch, A. Grünwald, 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	-
24. 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	-
25. 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
26. 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	-
27. M. Gawęda, E. Długoń, P. Jeleń, R. Jadach, A. Wajda , M. Nocuń, M. Szymańska, M. Sitarz, <i>Examination of doped</i>	20	2.120	-

<i>zirconia-based layers deposited on metallic substrates</i> , J. Mol. Struct. 2018 , 1166, 321-325.			
28. A. Wajda* , W. Goldmann, R. Detsch, A. Grünewald, A.R. Boccaccini*, M. Sitarz, Structural characterization and evaluation of antibacterial and angiogenic potential of gallium-containing melt-derived and gel-derived glasses from CaO-SiO ₂ system, Ceram. Int. 2018 , 44(18), 22698-22709.	40	3.450	Etiuda, NCN
29. 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	-
30. 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	-
31. 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	-
32. 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	-
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35. K. Kochan, K. Chrabąszcz, 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
36. J. Dybas , K.M. Marzec , M. Z. Pacia, K. Kochan, K. Czamara, K. Chrabąszcz, 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
37. S. Talu, S. Stach, M. Kaczmarska , M. Fornal, T. Grodzicki, W. Pohorecki, K. Burda*, <i>Multifractal characterization of</i>	35	1.692	NCN

<i>morphology of human red blood cells membrane skeleton</i> , J. Microsc. 2016 , 262(1), 59-72.			
38. 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
39. 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	-
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42. M. Sitarz, M. Drajewicz, 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	-
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44. T.P. Wrobel, K.M. Marzec , S. Chlopicki, E. Maślak, A. Jaształ, M. Franczyk-Żarów, I. Czyżyńska-Cichoń, T. Moszkowski, R.B. Kostogryś*, 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.	40	5.228	Sonata, NCN
45. 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
46. 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</i> , Pharm. Rep. 2015 , 67, 744–750.	25	2.096	-
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52. 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	-
53. 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	-
54. E.V. Galuskin*, I.O. Galuskina, J. Kusz, T. Armbruster, K.M. Marzec , P. Dzierżanowski, M. Muraszko, <i>Vapnikite Ca₃UO₆ – a new double perovskite mineral from pyrometamorphic larnite rocks</i> , Mineral. Mag. 2014 , 78, 571–581.	25	2.026	-
55. 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</i> , J. Non-Cryst. Solids 2014 , 401, 207-212.	30	1.766	Preludium, NCN
56. 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	-
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58. K.M. Marzec , A. Jaworska, K. Malek, A. Kaczor, M. Baranska*, <i>Substituent effect on structure and surface activity of N–</i>	30	2.519	-

<i>methylpyridinium salts (FT-IR, FT-RS, SERS and DFT)</i> , J. Raman Spectrosc. 2013 , 44, 155–165.			
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61. M. Kaczmarska , 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
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63. 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	-
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<i>by molecules of 4-thiazolidinone-2-thione. Structural and computational studies, Inorg. Chim. Act.</i> 2011 , 376, 581–589.			
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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%.

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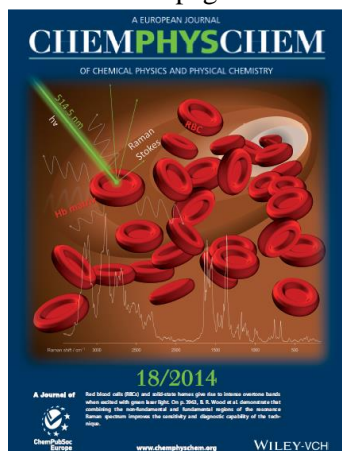
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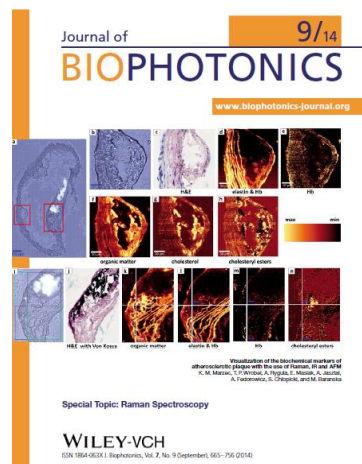
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C) Cover pages

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