

2018

Publications	IF	5y IF	Q	M
1 Kania,G., Sternak,M., Jaształ,A., Chłopicki,S., Blazejczyk,A., Nasulewicz-Goldeman,A., Wietrzyk,J., Jasinski,K., Skorka,T., Zapotoczny,S., and Nowakowska,M. (2018). Uptake and bioreactivity of charged chitosan-coated superparamagnetic nanoparticles as promising contrast agents for magnetic resonance imaging. <i>Nanomedicine</i> . 14, 131-140.				
2 Suraj,J., Kurpinska,A., Olkowicz,M., Niedzielska-Andres,E., Smolik,M., Zakrzewska,A., Jaształ,A., Sitek,B., Chłopicki,S., and Walczak,M. (2018). Development, validation and application of a micro-liquid chromatography-tandem mass spectrometry based method for simultaneous quantification of selected protein biomarkers of endothelial dysfunction in murine plasma. <i>J. Pharm. Biomed. Anal.</i> 149, 465-474.				
3 Tyrankiewicz,U., Olkowicz,M., Skorka,T., Jablonska,M., Orzyłowska,A., Bar,A., Gonet,M., Berkowicz,P., Jasinski,K., Zoladz,J.A., Smolenski,R.T., and Chłopicki,S. (2017). Activation pattern of ACE2/Ang-(1-7) and ACE/Ang II pathway in course of heart failure assessed by multiparametric MRI in vivo in Tgαphaq*44 mice. <i>J. Appl. Physiol</i> (1985.) jap				

2017

Publications	IF	5y IF	Q	M
1 Bar A, Olkowicz M, Tyrankiewicz U, Kus E, Jasinski K, Smolenski RT, Skorka T, Chłopicki S. Functional and biochemical endothelial profiling in vivo in a murine model of endothelial dysfunction; comparison of effects of 1-methylnicotinamide and angiotensin-converting enzyme inhibitor. <i>Front Pharmacol</i> 2017;8(APR).	4,4	4,275	Q1	40
2 Bulat K, Rygula A, Szafraniec E, Ozaki Y, Baranska M. Live endothelial cells imaged by Scanning Near-field Optical Microscopy (SNOM): capabilities and challenges. <i>J Biophotonics</i> 2017;10(6):928-38. DOI: 10.1002/jbio.201600081	4,328	3,609	Q1	35
3 Czamara K, Majzner K, Selmi A, Baranska M, Ozaki Y, Kaczor A. Unsaturated lipid bodies as a hallmark of inflammation studied by raman 2D and 3D microscopy. <i>Sci Rep</i> 2017;7.	4,259	4,846	Q1	40
4 Denslow A, Switalska M, Nowak M, Maciejewska M, Chłopicki S, Marcinek A, Gebicki J, Wietrzyk J. The effects of 1,4-dimethylpyridine in metastatic prostate cancer in mice. <i>BMC Cancer</i> 2017;17(1).	3,288	3,645	Q2	30
5 Dulski M, Marzec KM, Kusz J, Galuskińska I, Majzner K, Galuskińska E. Different route of hydroxide incorporation and thermal stability of new type of water clathrate: X-ray single crystal and raman investigation. <i>Sci Rep</i> 2017;7(1).	4,259	4,846	Q1	40
6 Gajda M, Jaształ A, Banasik T, Jasek-Gajda E, Chłopicki S. Combined orcein and martius scarlet blue (OMSB) staining for qualitative and quantitative analyses of atherosclerotic plaques in brachiocephalic arteries in apoE/LDLR-/-mice. <i>Histochem Cell Biol</i> 2017;147(6):671-81.	2,553	2,35	Q1	30
7 Grassi,B., Majerczak,J., Bardi,E., Buso,A., Comelli,M., Chłopicki,S., Guzik,M., Mavelli,I., Nieckarz,Z., Salvadego,D., Tyrankiewicz,U., Skorka,T., Bottinelli,R., Zoladz,J.A., and Pellegrino,M.A. (2017). Exercise training in Tgαphaq*44 mice during the progression of chronic heart failure: cardiac vs. peripheral (soleus muscle) impairments to oxidative metabolism. <i>J. Appl. Physiol</i> (1985.) 123, 326-336.	3,351	3,513	Q1	35
8 Heraud P, Marzec KM, Zhang QH, Yuen WS, Carroll J, Wood BR. Label-free in vivo raman microspectroscopic imaging of the macromolecular architecture of oocytes. <i>Sci Rep</i> 2017;7(1).	4,259	4,846	Q1	40
9 Jurowski K, Kochan K, Walczak J, Barańska M, Piekoszewski W, Buszewski B. Analytical techniques in lipidomics: State of the art. <i>Crit Rev Anal Chem</i> 2017;47(5):418-37.	4	4,301	Q1	30
10 Kochan K, Kus E, Filipek A, Szafranska K, Chłopicki S, Baranska M. Label-free spectroscopic characterization of live liver sinusoidal endothelial cells (LSECs) isolated from the murine liver. <i>Analyst</i> 2017;142(8):1308-19.	3,885	3,865	Q1	40
11 Kochan K, Kus E, Szafraniec E, Wislocka A, Chłopicki S, Baranska M. Changes induced by non-alcoholic fatty liver disease in liver sinusoidal endothelial cells and hepatocytes: spectroscopic imaging of single live cells at the subcellular level. <i>Analyst</i> 2017;142(20):3948-58. DOI: 10.1039/c7an00865a.	3,885	3,865	Q1	40
12 Kostogrys RB, Franczyk-Zarow M, Gasior-Glogowska M, Maslak E, Jaształ A, Wrobel TP, Baranska M, Czyzyska-Cichon I, Drahan A, Manterys A, Chłopicki S. Anti-atherosclerotic effects of pravastatin in brachiocephalic artery in comparison with en face aorta and aortic roots in ApoE/LDLR-/- mice. <i>Pharmacological Rep</i> 2017; 69(1):112-8. DOI: 10.1016/j.pharep.2016.09.014	2,587	2,536	Q2	25
13 Kramkowski K, Leszczynska A, Przyborowski K, Proniewski B, Marcinczyk N, Rykaczewska U, Jarmoc D, Chabielska E, Chłopicki S. Short-term treatment with nitrate is not sufficient to induce in vivo antithrombotic effects in rats and mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> 2017, 390(1), 85–94. http://doi.org/10.1007/s00210-016-1308-5	2,558	2,272	Q2	25
14 Kus K, Kus E, Zakrzewska A, Jawien W, Sitek B, Walczak M, Chłopicki S. Differential effects of liver steatosis on pharmacokinetic profile of two closely related hepatoselective NO-donors; V-PYRRO/NO and V-PROLI/NO. <i>Pharmacol Rep</i> 2017;69(3):560-5.	2,587	2,536	Q2	25
15 Majerczak J, Grandys M, Duda K, Zakrzewska A, Balcerczyk A, Kolodziejski L, Szymoniak-Chochol D, Smolenski RT, Bartosz G, Chłopicki S, Zoladz J. Moderate-intensity endurance training improves endothelial glycocalyx layer integrity in healthy young men. <i>Exp Physiol</i> 2017;102(1):70-85	2,912	2,937	Q2	30

16	Matyjaszczyk K, Kolonko M, Gonciarz-Dytman A, Oszczapowicz I, Łukawska M, Jawień W, Chlopicki S, Walczak M. Effects of structural modification of the daunosamine moiety of anthracycline antibiotics on pKa values determined by capillary zone electrophoresis. <i>J Chromatogr B Anal Technol Biomed Life Sci</i> 2017;1060:44-52.	2,603	2,711	Q2	30
17	Olkowicz M, Chlopicki S, Smolenski RT. A primer to angiotensin peptide isolation, stability, and analysis by nano-liquid chromatography with mass detection. <i>Methods Mol Biol</i> 2017;1614:175-87.	n/a	n/a	n/a	n/a
18	Perez-Guaita D, de Veij M, Marzec KM, Almohammed ARD, McNaughton D, Hudson AJ, Wood BR. Resonance Raman and UV-Visible Microscopy Reveals that Conditioning Red Blood Cells with Repeated Doses of Sodium Dithionite Increases Haemoglobin Oxygen Uptake. <i>ChemistrySelect</i> 2017, DOI: 10.1002/slct.201700190.	n/a	n/a	n/a	n/a
19	Polavarapu PL, Covington CL, Chruszcz-Lipska K, Zajac G, Baranska M. Vibrational Raman optical activity of bicyclic terpenes: Comparison between experimental and calculated vibrational Raman, Raman optical activity and dimensionless circular intensity difference spectra and their similarity analysis. <i>Journal of Raman Spectroscopy</i> 2017; 48(2):305-313. DOI: 10.1002/jrs.5035	2,425		Q2	30
20	Prieto L, Rossier J, Derszniak K, Dybas J, Oetterli RM, Kottelat E, Chlopicki S, Zelder F, Zobi F. Modified biovectors for the tuneable activation of anti-platelet carbon monoxide release. <i>Chem Commun</i> 2017;53(51):6840-3.	6,319	6,238	Q1	40
21	Przyborowski K, Kassassir H, Wojewoda M, Kmiecik K, Sitek B, Siewiera K, Zakrzewska A, Rudolf AM, Kostogryś R, Watala C, Zoladz JA, Chlopicki S. Effects of a single bout of strenuous exercise on platelet activation in female ApoE/LDLR-/-mice. <i>Platelets</i> 2017;28(7):657-67.	2,465	2,558	Q3	25
22	Pytka K, Głuch-Lutwin M, Kotańska M, Waszkielewicz A, Kij A, Walczak M. Single administration of HBK-15—a triple 5-HT _{1A} , 5-HT ₇ , and 5-HT ₃ receptor Antagonist—Reverses depressive-like behaviors in mouse model of depression induced by corticosterone. <i>Mol Neurobiol</i> 2017:1-15.	6,19	5,767	Q1	40
23	Smeda M, Przyborowski K, Proniewski B, Zakrzewska A, Kaczor D, Stojak M, Buczek E, Nieckarz Z, Zoladz JA, Wietrzyk J, Chlopicki S. Breast cancer pulmonary metastasis is increased in mice undertaking spontaneous physical training in the running wheel; a call for revising beneficial effects of exercise on cancer progression. <i>Am J Cancer Res</i> 2017;7(9):1926-36.	3,264	3,686	Q2	35
24	Staniszewska-Slezak E, Wiercigroch E, Fedorowicz A, Buczek E, Mateuszuk L, Baranska M, Chlopicki S, Malek K. A possible fourier transform infrared-based plasma fingerprint of angiotensin-converting enzyme inhibitor-induced reversal of endothelial dysfunction in diabetic mice. <i>J Biophotonics</i> 2017.	4,328	3,609	Q1	35
25	Szafarz M, Kus K, Walczak M, Zakrzewska A, Niemczak M, Pernak J, Chlopicki S. Pharmacokinetic profile of 1-methylnicotinamide nitrate [Mnano3] in rats. <i>J Pharm Sci</i> 2017;106(5):1412-8.	2,713	2,855	Q2	30
26	Szafranec E, Majzner K, Farhane Z, Byrne HJ, Lukawska M, Oszczapowicz I, Chlopicki S, Baranska M. Spectroscopic studies of anthracyclines: Structural characterization and in vitro tracking. <i>Spectrochim Acta Part A Mol Biomol Spectrosc</i> 2016;169:152-60.	2,536	2,346	Q2	30
27	Targosz-Korecka, M., Jaglarz, M., Malek-Zietek, K.E., Gregorius, A., Zakrzewska, A., Sitek, B., Rajfur, Z., Chlopicki, S., and Szymonski, M. (2017). AFM-based detection of glycocalyx degradation and endothelial stiffening in the db/db mouse model of diabetes. <i>Sci. Rep.</i> 7, 15951.	4,259	4,847	Q1	40
28	Wojewoda M, Przyborowski K, Sitek B, Zakrzewska A, Mateuszuk L, Zoladz JA, Chlopicki S. Effects of chronic nitric oxide synthase inhibition on V'O ₂ max and exercise capacity in mice. <i>Naunyn-Schmiedeberg's Arch Pharmacol</i> 2017;390(3):235-44. DOI: 10.1007/s00210-016-1318-3	2,558	2,272	Q2	25
29	Zajac G, Lasota J, Dudek M, Kaczor A, Baranska M. Pre-resonance enhancement of exceptional intensity in aggregation-induced Raman optical activity spectra of lutein derivatives. <i>Spectrochimica Acta Part A</i> , 2017, 117, 356-360	2,536	2,346	Q2	30
30	Zapotoczny B, Owczarczyk K, Szafranska K, Kus E, Chlopicki S, Szymonski M. Morphology and force probing of primary murine liver sinusoidal endothelial cells. <i>J Mol Recogn</i> 2017;30(7).	2,175	2,051	Q3	20
31	Zapotoczny B, Szafranska K, Kus E, Chlopicki S, Szymonski M. Quantification of fenestrations in liver sinusoidal endothelial cells by atomic force microscopy. <i>Micron</i> 2017;101:48-53.	1,98	2,071	Q2	30
32	Zapotoczny B, Szafranska K, Owczarczyk K., et al. Atomic Force Microscopy Reveals the Dynamic Morphology of Fenestrations in Live Liver Sinusoidal Endothelial Cells. <i>SCIENTIFIC REPORTS</i> 2017;7 :7994.	4,259	4,847	Q1	40
33	Ziaja, J., Kowalik, A.P., Kolonko, A., Kaminska, D., Owczarek, A.J., Kujawa-Szewieczek, A., Kusztal, M.A., Badura, J., Bozek-Pajak, D., Choreza, P., Zakrzewska, A., Krol, R., Chlopicki, S., Klinger, M., Wiecek, A., Chudek, J., and Cierpka, L. (2017). Type 1 diabetic patients have better endothelial function after simultaneous pancreas-kidney transplantation than after kidney transplantation with continued insulin therapy. <i>Diab. Vasc. Dis. Res.</i> 1479164117744423.				

2016

Publications	IF	5y IF	Q	M
1 Bar A, Skórka T, Jasiński K, Sternak M, Bartel Z, Tyrankiewicz U, Chlopicki S. Retrospectively gated MRI for in vivo assessment of endothelium-dependent vasodilatation and endothelial permeability in murine models of endothelial dysfunction. <i>NMR Biomed</i> 2016.	2,983	3,372	Q1	35
2 Barone FC Gustafson D, Crystal HA, Moreno H, Adamski MG, Arai K, Baird AE, Balucani C, Brickman AM, Cechetto D, Gorelick P, Biessels GJ, Kiliaan A, Launer L, Schneider J, Sorond FA, Whitmer R, Wright C, Zhang ZG. First translational 'Think Tank' on cerebrovascular disease, cognitive impairment and dementia. <i>J Transl Med</i> . 2016 Feb 13;14(1):50. doi: 10.1186/s12967-016-0806-z.		4,126	Q1	35
3 Blazejczyk A, Switalska M, Chlopicki S, Marcinek A, Gebicki J, Nowak M, Nasulewicz-Goldeman A, Wietrzyk J. 1-methylnicotinamide and its structural analog 1,4-dimethylpyridine for the prevention of cancer metastasis. <i>J Exp Clin Cancer Res</i> 2016;35(1).	4,357	4,097	Q1	30
4 Byk K, Jasinski K, Bartel Z, Jaształ A, Sitek B, Tomanek B, Chlopicki S, Skorka T. MRI-based assessment of liver perfusion and hepatocyte injury in the murine model of acute hepatitis. <i>Magn Reson Mater Phys Biol Med</i> 2016:1-10.	2,638	2,568	Q2	30
5 Czamara K, Petko F, Baranska M, Kaczor A. Raman microscopy at the subcellular level: A study on early apoptosis in endothelial cells induced by fas ligand and cycloheximide. <i>Analyst</i> 2016;141(4):1390-7.	4,107	4,14	Q1	40
6 Czarnowska E, Bierła JB, Toczek M, Tyrankiewicz U, Pajak B, Domal-Kwiatkowska D, Ratajska A, Smolenski RT, Mende U, Chlopicki S. Narrow time window of metabolic changes associated with transition to overt heart failure in Tgaq*44 mice. <i>Pharmacol Rep</i> 2016;68(4):707-14.	2,251	2,337	Q3	25
7 Dębowska K, Dębski D, Michałowski B, Dybala-Defratyka A, Wójcik T, Michalski R, Jakubowska M, Selmi A, Smulik R, Piotrowski Ł, Adamus J, Marcinek A, Chlopicki S, Sikora A. Characterization of fluorescein-based monoboronate probe and its application to the detection of peroxynitrite in endothelial cells treated with doxorubicin. <i>Chem Res Toxicol</i> 2016;29(5):735-46.	3,025	3,61	Q2	35
8 Dybas J, Marzec KM, Pacia MZ, Kochan K, Czamara K, Chrabaszcz K, Staniszweska-Slezak E, Malek K, Baranska M, Kaczor A. 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.</i> 2016, 85, 117-127	7,487	7,474	Q1	50
9 Fedorowicz A, Mateuszuk L, Kopec G, Skórka T, Kutryb-Zajac B, Zakrzewska A, Walczak M, Jakubowski A, Łomnicka M, Stomińska E, Chlopicki S. Activation of the nicotinamide N-methyltransferase (NNMT)-1-methylnicotinamide (MNA) pathway in pulmonary hypertension. <i>Respir Res</i> 2016;17(1). doi: 10.1186/s12931-016-0423-7.	3,751	3,767	Q1	35
10 Gąsior-Głogowska M, Malek K, Zajac G, Baranska M. A new insight into the interaction of cisplatin with DNA: ROA spectroscopic studies on the therapeutic effect of the drug. <i>Analyst</i> 2016;141(1):291-6.	4,107	4,14	Q1	40
11 Grosicki M, Wojcik T, Chlopicki S, Kiec-Kononowicz K. In vitro study of histamine and histamine receptor ligands influence on the adhesion of purified human eosinophils to endothelium. <i>European Journal of Pharmacology</i> 2016;777:49-59.	2,532	2,673	Q2	25
12 Jakubowski A, Sternak M, Jablonski K, Cizek-Lenda M, Marcinkiewicz J, Chlopicki S. 1-Methylnicotinamide protects against liver injury induced by concanavalin A via a prostacyclin-dependent mechanism: A possible involvement of IL-4 and TNF- α . <i>Int Immunopharmacol</i> 2016. doi: 10.1016/j.intimp.2015.11.032. Epub 2015 Dec 17.	2,472	2,707	Q2	25
13 Jezkova K, Rathouska J, Nemeckova I, Fikrova P, Dolezelova E, Varejkova M, Vitverova B, Tysonova K, Serwaczak A, Buczek E, Bernabeu C, Lopez-Novoa JM, Chlopicki S, Nachtigal P. High Levels of Soluble Endoglin Induce a Proinflammatory and Oxidative-Stress Phenotype Associated with Preserved NO-Dependent Vasodilatation in Aortas from Mice Fed a High-Fat Diet. <i>JOURNAL OF VASCULAR RESEARCH</i> 2016;53(3-4):149-162.	2,186	2,481	Q3	25
14 Kachamakova-Trojanowska N, Nowak W, Szade K, Stępniewski J, Bukowska-Strakova K, Zukowska M, Taha H, Chmura-Skirlinska A, Beilharz M, Dulak J, Józkowicz A. Generation of functional endothelial cells with progenitor-like features from murine induced pluripotent stem cells. <i>Vascular Pharmacology</i> 2016;86:94-108.	2,5	2,973	Q2	30
15 Kaczara P, Motterlini R, Kus K, Zakrzewska A, Abramov AY, Chlopicki S. Carbon monoxide shifts energetic metabolism from glycolysis to oxidative phosphorylation in endothelial cells. <i>FEBS Lett</i> 2016;590(20):3469-80. doi: 10.1002/1873-3468.12434.	3,519	3,478	Q2	30
16 Kaczyńska A, Guzdek K, Derszniak K, Karewicz A, Lewandowska-Łańcucka J, Mateuszuk Ł, Skórka T, Banasik T, Jasiński K, Kapusta C, Chlopicki S, Nowakowska M. Novel nanostructural contrast for magnetic resonance imaging of endothelial inflammation: Targeting SPIONs to vascular endothelium. <i>RSC Adv</i> 2016;6(76):72586-95.	3,289	3,289	Q2	35
17 Kij A, Mateuszuk L, Sitek B, Przyborowski K, Zakrzewska A, Wandzel K, Walczak M, Chlopicki S. Simultaneous quantification of PGI2 and TXA2 metabolites in plasma and urine in NO-deficient mice by a novel UHPLC/MS/MS method. <i>J Pharm Biomed Anal</i> 2016;129:148-54.	3,169	2,904	Q1	35
18 Kochan K, Chrabaszcz K, Szczur B, Maslak E, Dybas J, Marzec KM. IR and Raman imaging of murine brain from control and ApoE/LDLR-/- mice with advanced atherosclerosis. <i>Analyst</i> 2016;141(18):5329-5338.	4,107	4,14	Q1	40
19 Kramkowski K, Leszczynska A, Przyborowski K, Kaminski T, Rykaczewska U, Sitek B, Zakrzewska A, Proniewski B, Smolenski RT, Chabielska E, Buczek W, Chlopicki S. Role of xanthine oxidoreductase in the anti-thrombotic effects of nitrite in rats in vivo. <i>Platelets</i> 2016;27(3):245-53.	3,213	2,684	Q2	25

20	Kutryb-Zajac B, Mateuszuk L, Zukowska P, Jaształ A, Zabielska MA, Toczek M, Jablonska P, Zakrzewska A, Sitek B, Rogowski J, Lango R, Slominska EM, Chlopicki S, Smolenski RT. Increased activity of vascular adenosine deaminase in atherosclerosis and therapeutic potential of its inhibition. <i>Cardiovascular Research</i> 2016;12(2):590-605.	5,465	5,815	Q1	40
21	Latuskiewicz-Potemska J, Chmura-Skirlinska A, Gurbiel RJ, Smolewska E. Nailfold capillaroscopy assessment of microcirculation abnormalities and endothelial dysfunction in children with primary or secondary raynaud syndrome. <i>Clin Rheumatol</i> 2016;35(8):1993-2001.	2,042	2,106	Q3	<u>20</u>
22	Łukasiak A, Skup A, Chlopicki S, Łomnicka M, Kaczara P, Proniewski B, Szewczyk A, Wrzosek A. SERCA, complex I of the respiratory chain and ATP-synthase inhibition are involved in pleiotropic effects of NS1619 on endothelial cells. <i>Eur J Pharmacol</i> 2016;786:137-47.	2,73	2,749	Q2	25
23	Majerczak J, Duda K, Chlopicki S, Bartosz G, Zakrzewska A, Balcerczyk A, Smoleński RT, Zoladz JA. Endothelial glycocalyx integrity is preserved in young, healthy men during a single bout of strenuous physical exercise. <i>Physiol Res</i> 2015;65(2):281-291.		1,69	Q4	20
24	Majzner K, Chlopicki S, Baranska M. Lipid droplets formation in human endothelial cells in response to polyunsaturated fatty acids and 1-methyl-nicotinamide (MNA); confocal raman imaging and fluorescence microscopy studies. <i>J Biophotonics</i> 2016;9(4):396-405.		3,959	Q1	<u>35</u>
25	Mammi C, Marzolla V, Armani A, Feraco A, Antelmi A, Maslak E, Chlopicki S, Hunt H, Fabbri A, Caprio M. A novel combined glucocorticoid-mineralocorticoid receptor selective modulator markedly prevents weight gain and fat mass expansion in mice fed a high-fat diet. <i>Int J Obes</i> 2016;40(6):964-972	5,004	5,283	Q1	40
26	Marzec K, Dybas J, Chlopicki S, Baranska M. Resonance Raman in vitro Detection and Differentiation of the Nitrite-induced Hemoglobin Adducts in Functional Human Red Blood Cells. <i>J Phys Chem B</i> . 2016;120(48):12249-12260.	3,187	3,265	Q2	30
27	Mateuszuk L, Jaształ A, Maslak E, Gasiór-Głogowska M, Baranska M, Sitek B, Kostogryś R, Zakrzewska A, Kij A, Walczak M, Chlopicki S. Antiatherosclerotic Effects of 1-Methylnicotinamide in Apolipoprotein E/Low-Density Lipoprotein Receptor-Deficient Mice: A Comparison with Nicotinic Acid. <i>J Pharmacol Exp Ther</i> 2016. doi: 10.1124/jpet.115.228643. Epub 2015 Dec 2.	3,972	3,819	Q1	35
28	Pacia MZ, Buczek E, Blazejczyk A, Gregorius A, Wietrzyk J, Chlopicki S, Baranska M, Kaczor A. 3D raman imaging of systemic endothelial dysfunction in the murine model of metastatic breast cancer. <i>Anal Bioanal Chem</i> 2016;408(13):3381-7.	3,436	3,565	Q1	35
29	Pacia MZ, Mateuszuk L, Buczek E, Chlopicki S, Blazejczyk A, Wietrzyk J, Baranska M, Kaczor A. Rapid biochemical profiling of endothelial dysfunction in diabetes, hypertension and cancer metastasis by hierarchical cluster analysis of raman spectra. <i>J Raman Spectrosc</i> 2016;47(11):1310-1317.		2,425	Q2	30
30	Staniszewska-Slezak E, Mateuszuk L, Chlopicki S, Baranska M, Malek K. Alterations in plasma biochemical composition in NO deficiency induced by L-NAME in mice analysed by fourier transform infrared spectroscopy. <i>J Biophotonics</i> 2016.	3,818	3,381	Q1	35
31	Szafranec E, Majzner K, Farhane Z, Byrne HJ, Lukawska M, Oszczapowicz I, Chlopicki S, Baranska M. Spectroscopic studies of anthracyclines: Structural characterization and in vitro tracking. <i>Spectrochim Acta Part A Mol Biomol Spectrosc</i> 2016;169:152-60.		2,163	Q2	<u>30</u>
32	Tyrankiewicz U, Skorka T, Orzylowska A, Jablonska M, Jasinski K, Jaształ A, Bar A, Kostogryś R, Chlopicki S. Comprehensive MRI for the detection of subtle alterations in diastolic cardiac function in apoE/LDLR-/- mice with advanced atherosclerosis. <i>NMR Biomed</i> 2016;29(6):833-40.	2,983	3,372	Q1	35
33	Wojewoda M, Tyrankiewicz U, Gwozdz P, Skorka T, Jablonska M, Orzylowska A, Jasinski K, Jaształ A, Przyborowski K, Kostogryś RB, Zoladz JA, Chlopicki S. Exercise capacity and cardiac hemodynamic response in female ApoE/LDLR-/- mice: A paradox of preserved V'O2max and exercise capacity despite coronary atherosclerosis. <i>Sci Rep</i> 2016;6.	5,228	5,525	Q1	40
34	Zajac G, Kaczor A, Pallares Zazo A, Mlynarski J, Dudek M, Baranska M. Aggregation-Induced Resonance Raman Optical Activity (AIRROA) – a New Mechanism for Chirality Enhancement. <i>The Journal of Physical Chemistry, Part B</i> 2016;120(17):4028-4033.	3,302	3,528	Q2	<u>30</u>

2015

Publications	5y IF	Q	M
1 Bonnier F, Keating M, Wrobel T, Majzner K, Baranska M, Garcia A, Blanco A, Byrne HJ. Cell viability assessment using the Alamar blue assay: A comparison of 2D and 3D cell culture models. <i>Toxicology in Vitro</i> 2015;29(1):124-31.	3,151	Q2	<u>30</u>
2 Czamara K, Natorska J, Kapusta P, Baranska M, Kaczor A. Raman microspectroscopy of human aortic valves: investigation of local and global biochemical changes associated with calcification in the aortic stenosis. <i>Analyst</i> 2015; DOI: 10.1039/C4AN01856G.	4,097	Q1	40
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32	Tomkiewicz-Pajak L, Wojcik W, Chłopicki S, Olszowska M, Pajak J, Podolec J, Sitek B, Musiałek P, Rubis P, Komar M, Podolec P. Aspirin resistance in adult patients after Fontan surgery. <i>International Journal of Cardiology</i> 2015; 181:19-26.	5,101		Q1	35
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35	Wrobel TP, Marzec KM, Chlopicki S, Maślak E, Jaształ A, Franczyk-Zarów M, Czyżyńska-Cichoń I, Moszkowski T, Kostogryś RB, Baranska M. Effects of low carbohydrate high protein (LCHP) diet on atherosclerotic plaque phenotype in ApoE/LDLR-/- mice: FT-IR and raman imaging. <i>Sci Rep</i> 2015;5.	5,597		Q1	40
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Other publications			5y IF	Q	M
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4	Roman M, Marzec KM, Grzebelus E, Simon PW, Baranska M, Baranski R. Composition and (in)homogeneity of carotenoid crystals in carrot cells revealed by high resolution Raman imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> 2015;136:1395-1400.	2,163		Q2	30
5	Staniszewska-Slezak E, Rygula A, Malek K, Baranska M. Transmission versus transfection mode in FTIR analysis of blood plasma: Is the electric field standing wave effect the only reason for observed spectral distortions? <i>Analyst</i> 2015;140(7):2412-21.	4,097		Q1	40
6	Wajnchold B, Grabka M, Umińska A, Ryguła A, Kotas D, Gołuński M, Pustelny S, Gawlik W. Adsorption of cationic organic dyes in suspended-core fibers. <i>Opt Lett</i> 2015;40(8):1647-50.	3,292	3,208	Q1	35
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4	Frolow M, Drozd A, Kowalewska A, Nizankowski R, Chlopicki S. Comprehensive assessment of vascular health in patients; towards endothelium-guided therapy. <i>Pharmacol Rep</i> 2015;67(4):786-92.	2,402	Q3	25
5	Kozlovski VI, Lomnicka M, Bartus M, Sternak M, Chlopicki S. Anti-thrombotic effects of nebivolol and carvedilol: Involvement of β_2 receptors and COX-2/PGI2 pathways. <i>Pharmacol Rep</i> 2015;67(5):1041-7.	2,402	Q3	25
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8	Olkowicz M, Chlopicki S, Smolenski RT. Perspectives for angiotensin profiling with liquid chromatography/mass spectrometry to evaluate ACE/ACE2 balance in endothelial dysfunction and vascular pathologies. <i>Pharmacol Rep</i> 2015;67(4):778-85.	2,402	Q3	<u>25</u>
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Publications	5y IF	Q	M
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5 Kozakowska M, Szade K, Dulak J, Jozkowicz A. Role of heme oxygenase-1 in postnatal differentiation of stem cells: A possible cross-talk with MicroRNAs. <i>Antioxidants and Redox Signaling</i> 2014;20(11):1827-50.	8,499	Q1	<u>45</u>
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7 Majzner K, Kochan K, Kachamakova-Trojanowska N, Maslak E, Chlopicki S, Baranska M. Raman imaging providing insights into chemical composition of lipid droplets of different size and origin: In hepatocytes and endothelium. <i>Anal Chem</i> 2014;86(13):6666-74.	5,966	Q1	45
8 Marzec KM, Perez-Guaita D, de Veij M, McNaughton D, Baranska M, Dixon MWA, Tilley L, Wood BR. Red blood cells polarize green laser light revealing hemoglobin's enhanced non-fundamental Raman modes. <i>Chem. Phys. Chem.</i> 2014; 15(18):3963-3968.	3,236	Q1	35
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10 Nowak WN, Borys S, Kusińska K, Bukowska-Strakova K, Witek P, Koblik T, Józkowicz A, Malecki MT, Dulak J. Number of circulating pro-angiogenic cells, growth factor and anti-oxidative gene profiles might be altered in type 2 diabetes with and without diabetic foot syndrome. <i>Journal of Diabetes Investigation</i> 2014;5(1):99-107.	1,836	Q4	20
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12 Pilarczyk M, Ryguła A, Kaczor A, Mateuszuk L, Maslak E, Chlopicki S, Baranska M. A novel approach to investigate vascular wall in 3D: Combined Raman spectroscopy and atomic force microscopy for aorta <i>en face</i> imaging. <i>Vibrational Spectroscopy</i> 2014;75:39-44.	1,791	Q3	25
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16 Wojewoda M, Kmieciak K, Ventura-Clapier R, Fortin D, Onopiuk M, Jakubczyk J, Sitek B, Fedorowicz A, Majerczak J, Kaminski K, Chlopicki S, Zoladz JA. Running performance at high running velocities is impaired but V'O ₂ max and peripheral endothelial function are preserved in IL-6 ^{-/-} mice. <i>PLoS ONE</i> 2014;9(2).	4,015	Q1	40
17 Zajac G, Kaczor A, Chruszcz-Lipska K, Dobrowolski JC, Baranska M. Bisignate resonance Raman optical activity: a pseudo breakdown of the Single Electronic State model of RROA? <i>J Raman Spectrosc</i> 2014; 45(10), 859-862.	2,425	Q2	<u>30</u>
Other publications	5y IF	Q	M
1 Galuskin EV, Galuskina IO, Kusz J, Armbruster T, Marzec KM, Dzierzanowski P, Muraszko M. Vapnikite Ca ₃ UO ₆ – a new double perovskite mineral from pyrometamorphic larnite rocks of the Jabel Harmun, Palestinian Autonomy, Israel. <i>Mineral Mag</i> 2014, 78(3), 571-581.	1,677	Q2	25
Book chapters and reviews	5y IF	Q	M
1 "Optical Spectroscopy and Computational Methods in Biology and Medicine, M. Baranska (Ed.)", 2014, Springer, ISBN 978-94-007-7831-3:			
2 a. Baranska M, Roman M, Majzner K. General overview on vibrational spectroscopy applied in biology and medicine. Chapter 1.			
3 b. Chruszcz-Lipska K, Blanch E. Raman Optical Activity of biological samples. Chapter 4;			
4 c. Kaczor A, Pilarczyk M. Structural and spatial analysis of carotenoids in a single cell monitored by Raman spectroscopy. Chapter 11.			
5 d. Malek K, Wood B, Bambery KR. FT-IR imaging of cells and tissue: techniques and methods of analysis. Chapter 15.			

6 Wrobel TP, Fedorowicz A, Mateuszuk L, Maslak E, Jaształ A, Chlopicki S, Marzec KM. Vibrational microspectroscopy for analysis of atherosclerotic arteries. Chapter 17.

2013

Publications		5y IF	Q	M
1	Kochan K, Marzec KM, Chruszcz-Lipska K, Jaształ A, Maslak E, Musiolik H, Chlopicki S, Baranska M. Pathological changes in the biochemical profile of liver in atherosclerosis and diabetes assessed by Raman spectroscopy. <i>Analyst</i> 2013, 138, 3885-3890.	4,097	Q1	40
2	Majzner K, Kaczor A, Kachamakova-Trojanowska N, Fedorowicz A, Chlopicki S, Baranska M. 3D confocal raman imaging of endothelial cells and vascular wall: Perspectives in analytical spectroscopy of biomedical research. <i>Analyst</i> 2013;138(2):603-10.	4,097	Q1	40
3	Majzner K, Wrobel TP, Fedorowicz A, Chlopicki S, Baranska M. Secondary structure of proteins analyzed ex vivo in vascular wall in diabetic animals using FT-IR spectroscopy. <i>Analyst</i> 2013;138(24):7400-10.	4,097	Q1	40
4	Marzec KM, Jaworska A, Malek K, Kaczor A, Baranska M. Substituent effect on structure and surface activity of N-methylpyridinium salts studied by FT-IR, FT-RS, SERS and DFT calculations. <i>J Raman Spectrosc</i> 2013;44(1):155-65.	2,425	Q2	30
5	Szade K, Bukowska-Strakova K, Nowak WN, Szade A, Kachamakova-Trojanowska N, Zukowska M, Jozkowicz A, Dulak J. Murine bone marrow lin-sca-1+CD45- very small embryonic-like (VSEL) cells are heterogeneous population lacking oct-4A expression. <i>PLoS ONE</i> 2013;8(5).	4,015	Q1	40
6	Szafarz M, Szymura-Oleksiak J, Zakrzewska A, Walczak M, Kus K, Gonciarz A. Liquid chromatography-mass spectrometry method for the analysis of 1,4-dimethylpyridinium in rat plasma - application to pharmacokinetic studies. <i>Biomedical Chromatography</i> 2013;27(1):73-9.	1,695	Q3	20
7	Tyrankiewicz U, Skorka T, Jablonska M, Petkow-Dimitrow P, Chlopicki S. Characterization of the cardiac response to a low and high dose of dobutamine in the mouse model of dilated cardiomyopathy by MRI in vivo. <i>Journal of Magnetic Resonance Imaging</i> 2013;37(3):669-77.	3,007	Q1	35
8	Walczak M. Binding of new aminopropan-2-ol compounds to bovine serum albumin, ai-acid glycoprotein and rat serum using equilibrium dialysis and LC/MS/MS. <i>Pharmacological Reports</i> 2013;65(5):1294-303.	2,402	Q3	25
9	Walczak MZ. Physicochemical profiling of new aminopropan-2-ol derivatives with β -adrenolytic activity: The importance for pharmacokinetic properties. <i>Pharmazie</i> 2013;68(11):866-71.	0,947	Q3	15
10	Woźniak M, Tyrankiewicz U, Drelicharz Ł, Skórka T, Jaboska M, Heinze-Paluchowska S, Chłopicki S. The effect of the renin-angiotensin-aldosterone system inhibition on myocardial function in early and late phases of dilated cardiomyopathy in tgaq 44 mice. <i>Kardiol Pol</i> 2013;71(7):730-7.	0,472	Q4	15
11	Wrobel TP, Mateuszuk L, Kostogryś RB, Chlopicki S, Baranska M. Quantification of plaque area and characterization of plaque biochemical composition with atherosclerosis progression in ApoE/LDLR-/- mice by FT-IR imaging. <i>Analyst</i> 2013;138(21):6645-52.	4,097	Q1	40
12	Wrobel TP, Wajnochold B, Byrne HJ, Baranska M. Electric field standing wave effects in FT-IR transfection spectra of biological tissue sections: Simulated models of experimental variability. <i>Vibrational Spectroscopy</i> 2013;69:84-92.	1,791	Q3	25
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2	Galuskin EV, Kusz J, Armbruster T, Galuskina IO, Marzec KM, Vapnik Y, Murashko M. Vorlanite, (CaU ⁶⁺)O ₄ , from Jabel Harmun, Palestinian Autonomy, Israel. <i>American Mineralogist</i> 2013, 98, 1938-1942.	2,449	Q2	30
3	Roman M, Baranska M. Vibrational and theoretical study of selected diacetylenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> 2013;115:493-503.	2,163	Q2	30
4	Piarczyk M, Czamara K, Baranska M, Natorka J, Kapusta P, Undas A, Kaczor A. Calcification of aortic human valves studied in situ by raman microimaging: Following mineralization from small grains to big deposits. <i>J Raman Spectrosc</i> 2013;44(9):1222-9.	2,425	Q2	30
5	Roman M, Kaczor A, Dobrowolski JC, Baranska M. Structural changes of β -carotene and some retinoid pharmaceuticals induced by environmental factors. <i>J Mol Struct</i> 2013;1037:99-108.	1,585	Q3	20
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2	Kochan K, Maslak E, Kostogryś R, Chlopicki S, Baranska M. A comprehensive approach to study liver tissue: spectroscopic imaging and histochemical staining. <i>Biomed Spec and Imag</i> 2013(2):331-337.			
3	Malek K, Jaworska A, Krala P, Kachamakova-Trojanowska N, Baranska M. Imaging of macrophages by Surface Enhanced Raman Spectroscopy (SERS). <i>Biomed Spec and Imag</i> 2013(2):349-357.			
4	Piarczyk M, Rygula A, Mateuszuk L, Chlopicki S, Baranska M, Kaczor A. Multi-methodological insight into the vessel wall cross-section: Raman and AFM imaging combined with immunohistochemical staining. <i>Biomed Spec and Imag</i> 2013(2):191-197.			
5	Roman M, Chruszcz-Lipska K, Celka J, Baranska M. Raman Optical Activity of cinchona alkaloids. <i>Biomed Spec and Imag</i> 2013(2):359-365.			
6	Staniszewska E, Bartosz AK, Malek K, Baranska M. An effect of anticoagulants on the FTIR spectral profile of mice plasma. <i>Biomed Spec and Imag</i> 2013(2):317-330			
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 - 2 Grochot-Przeczek A, Dulak J, Jozkowicz A. Therapeutic angiogenesis for revascularization in peripheral artery disease. *Gene* 2013;525(2):220-8.

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2. Chłopicki S, Kurdziel M, Sternak M, Szafarz M, Szymura-Oleksiak J, Kamiński K, Zołądz JA. Single bout of endurance exercise increases NNMT activity in the liver and MNA concentration in plasma; the role of IL-6. <i>Pharmacological Reports</i> 2012;64(2):369-76.	2,402	Q3	25
3. Csányi G, Gajda M, Franczyk-Zarow M, Kostogryś R, Gwoźdź P, Mateuszuk L, Sternak M, Wojcik L, Zalewska T, Walski M, Chłopicki S. Functional alterations in endothelial NO, PGI2 and EDHF pathways in aorta in ApoE/LDLR-/- mice. <i>Prostaglandins and Other Lipid Mediators</i> 2012;98(3-4):107-15.	2,615	Q2	20
4. Gonciarz A, Kus K, Szafarz M, Walczak M, Zakrzewska A, Szymura-Oleksiak J. Capillary electrophoresis/frontal analysis versus equilibrium dialysis in dexamethasone sodium phosphate-serum albumin binding studies. <i>Electrophoresis</i> 2012;33(22):3323-30.	2,792	Q1	30
5. Kostogryś RB, Franczyk-Zarow M, Maslak E, Gajda M, Mateuszuk L, Chłopicki S. Effects of margarine supplemented with t10c12 and c9t11 cla on atherosclerosis and steatosis in apoE/ldr -/-mice. <i>Journal of Nutrition, Health and Aging</i> 2012;16(5):482-90.	2,969	Q2	30
6. Kostogryś RB, Franczyk-Zarow M, Maslak E, Gajda M, Mateuszuk T, Jackson CL, Chłopicki S. Low carbohydrate, high protein diet promotes atherosclerosis in apolipoprotein E/low-density lipoprotein receptor double knockout mice (apoE/LDLR-/-). <i>Atherosclerosis</i> 2012;223(2):327-31.	3,991	Q1	35
7. Kramkowski K, Leszczyńska A, Mogielnicki A, Chłopicki S, Fedorowicz A, Grochal E, Mann B, Brzoska T, Urano T, Motterlini R, Buczek W. Antithrombotic properties of water-soluble carbon monoxide-releasing molecules. <i>Arterioscler Thromb Vasc Biol</i> 2012;32(9):2149-57.	6,43	Q1	45
8. Mackiewicz U, Czarnowska E, Brudek M, Pajak B, Duda M, Emanuel K, Csányi G, Fedorowicz A, Grochal E, Tyrankiewicz U, Skórka T, Mende U, Lewartowski B, Chłopicki S. Preserved cardiomyocyte function and altered desmin pattern in transgenic mouse model of dilated cardiomyopathy. <i>J Mol Cell Cardiol</i> 2012;52(5):978-87.	5,133	Q1	35
9. Nowak WN, Mika P, Nowobilski R, Kusinska K, Bukowska-Strakova K, Nizankowski R, Jozkowicz A, Szczeklik A, Dulak J. Exercise training in intermittent claudication: Effects on antioxidant genes, inflammatory mediators and proangiogenic progenitor cells. <i>Thromb Haemost</i> 2012;108(5):824-31.	4,859	Q1	40
10. Papiet MA, Bukowska-Straková K, Krzyściak W, Baran J. (-)-Epicatechin enhances etoposide-induced antileukaemic effect in rats with acute myeloid leukaemia. <i>Anticancer Res</i> 2012;32(7):2905-13.	1,879	Q3	20
11. Pilarczyk M, Wrobel TP, Baranska M, Kaczor A. Correlation of monomer structures of tripalmitin with the spectroscopic fingerprint of polymorphs: Infrared, raman, and DFT study. <i>J Raman Spectrosc</i> 2012;43(10):1515-22.	2,425	Q2	30
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13. Wrobel TP, Majzner K, Baranska M. Protein profile in vascular wall of atherosclerotic mice analyzed ex vivo using FT-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> 2012;96:940-5.	2,163	Q2	30
14. Wrobel TP, Marzec KM, Majzner K, Kochan K, Bartus M, Chłopicki S, Baranska M. Attenuated total reflection fourier transform infrared (ATR-FTIR) spectroscopy of a single endothelial cell. <i>Analyst</i> 2012;137(18):4135-9.	4,097	Q1	40
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2. Baranska M, Dobrowolski JC, Kaczor A, Chruszcz-Lipska K, Gorz K, Rygula A. Tobacco alkaloids analyzed by raman spectroscopy and DFT calculations. <i>J Raman Spectrosc</i> 2012;43(8):1065-73.	2,425	Q2	30
3. Baranska M, Kaczor A. Morphine studied by vibrational spectroscopy and DFT calculations. <i>J Raman Spectrosc</i> 2012, 43(1), 102-107.	2,425	Q2	25
4. Cyranski M, Jamroz MH, Rygula A, Dobrowolski JC, Dobrzycki L, Barańska M. On Two Alizarin Polymorphs. <i>CrystEngComm</i> 2012, 14, 3667-3676.	3,908	Q1	35
5. Jaworska A, Malek K, Marzec KM, Baranska M. Nicotinamide and trigonelline studied with surface-enhanced FT-Raman spectroscopy. <i>Vibrational Spectroscopy</i> 2012;63:469-76.	1,791	Q3	25
6. Pilarczyk M, Wrobel TP, Baranska M, Kaczor A. Correlation of monomer structures of tripalmitin with the spectroscopic fingerprint of polymorphs: Infrared, raman, and DFT study. <i>J Raman Spectrosc</i> 2012;43(10):1515-22.	2,425	Q2	30