

# Pavel Matousek

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

261  
papers

11,143  
citations

59  
h-index

92  
g-index

274  
ext. papers

12,145  
ext. citations

5  
avg. IF

6.39  
L-index

#	Paper	IF	Citations
261	Model-Based Optimization of Laser Excitation and Detection Improves Spectral Contrast in Non-Invasive Diffuse Raman Spectroscopy.. <i>Applied Spectroscopy</i> , <b>2022</b> , 37028211072900	3.1	0
260	Spatially offset Raman spectroscopy. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		19
259	Spatially Offset Raman Spectroscopy-How Deep?. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6755-6762	7.8	10
258	Sub-Surface Molecular Analysis and Imaging in Turbid Media Using Time-Gated Raman Spectral Multiplexing. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 156-167	3.1	6
257	Spatially offset Raman spectroscopy for biomedical applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 556-568	58.5	36
256	Grating Spectrometry and Spatial Heterodyne Fourier Transform Spectrometry: Comparative Noise Analysis for Raman Measurements. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 241-249	3.1	1
255	Self-absorption corrected non-invasive transmission Raman spectroscopy (of biological tissue). <i>Analyst, The</i> , <b>2021</b> , 146, 1260-1267	5	4
254	Estimating the Reduced Scattering Coefficient of Turbid Media Using Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3386-3392	7.8	6
253	Portable through Bottle SORS for the Authentication of Extra Virgin Olive Oil. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8347	2.6	4
252	Smart Gold Nanostructures for Light Mediated Cancer Theranostics: Combining Optical Diagnostics with Photothermal Therapy. <i>Advanced Science</i> , <b>2020</b> , 7, 1903441	13.6	62
251	Noninvasive simultaneous monitoring of pH and depth using surface-enhanced deep Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 1078-1082	2.3	4
250	Noninvasive Detection of Differential Water Content Inside Biological Samples Using Deep Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9449-9453	7.8	3
249	Non-invasive and in situ investigation of layers sequence in panel paintings by portable micro-spatially offset Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 2016-2021	2.3	5
248	Detection of Age-Related Changes in Tendon Molecular Composition by Raman Spectroscopy-Potential for Rapid, Non-Invasive Assessment of Susceptibility to Injury. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	3
247	Optical characterization of porcine tissues from various organs in the 650-1100 nm range using time-domain diffuse spectroscopy. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 1697-1706	3.5	22
246	Adaptive band target entropy minimization: Optimization for the decomposition of spatially offset Raman spectra of bone. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 66-78	2.3	6
245	Determination of inclusion depth in ex vivo animal tissues using surface enhanced deep Raman spectroscopy. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960092	3.1	12

244	Non-invasive depth determination of inclusion in biological tissues using spatially offset Raman spectroscopy with external calibration. <i>Analyst, The</i> , <b>2020</b> , 145, 7623-7629	5	7
243	Spatially Offset and Transmission Raman Spectroscopy for Determination of Depth of Inclusion in Turbid Matrix. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8994-9000	7.8	21
242	Shifted Excitation Raman Difference Spectroscopy with Charge-Shifting Charge-Coupled Device (CCD) Lock-In Detection. <i>Applied Spectroscopy</i> , <b>2019</b> , 73, 1265-1276	3.1	8
241	Direct monitoring of light mediated hyperthermia induced within mammalian tissues using surface enhanced spatially offset Raman spectroscopy (T-SEORS). <i>Analyst, The</i> , <b>2019</b> , 144, 3552-3555	5	8
240	Lock-in detection in Raman spectroscopy with charge-shifting CCD for suppression of fast varying backgrounds. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 983	2.3	5
239	Subsurface Chemically Specific Measurement of pH Levels in Biological Tissues Using Combined Surface-Enhanced and Deep Raman. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10984-10987	7.8	11
238	Quantifying low levels (. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 155, 276-283	3.5	10
237	Spatially offset Raman spectroscopy for non-invasive analysis of turbid samples. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 103, 209-214	14.6	22
236	High sensitivity non-invasive detection of calcifications deep inside biological tissue using Transmission Raman Spectroscopy. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201600260	3.1	22
235	Exploring street art paintings by microspatially offset Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2018</b> , 49, 1652-1659	2.3	11
234	Contrasting confocal XRF with micro-SORS: a deep view within micrometric painted stratigraphy. <i>Analytical Methods</i> , <b>2018</b> , 10, 3837-3844	3.2	6
233	Sensitivity of Transmission Raman Spectroscopy Signals to Temperature of Biological Tissues. <i>Scientific Reports</i> , <b>2018</b> , 8, 8379	4.9	7
232	Fast Raman spectral mapping of highly fluorescing samples by time-gated spectral multiplexed detection. <i>Optics Letters</i> , <b>2018</b> , 43, 5733-5736	3	10
231	Determination of Depth in Transmission Raman Spectroscopy in Turbid Media Using a Beam Enhancing Element. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 1849-1855	3.1	7
230	Development of a full micro-scale spatially offset Raman spectroscopy prototype as a portable analytical tool. <i>Analyst, The</i> , <b>2017</b> , 142, 351-355	5	24
229	Discovering Hidden Painted Images: Subsurface Imaging Using Microscale Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 792-798	7.8	15
228	Investigation of Heterogeneous Painted Systems by Micro-Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11476-11483	7.8	9
227	Development of defocusing micro-SORS mapping: a study of a 19th century porcelain card. <i>Analytical Methods</i> , <b>2017</b> , 9, 6435-6442	3.2	14

226	Noninvasive Determination of Depth in Transmission Raman Spectroscopy in Turbid Media Based on Sample Differential Transmittance. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9730-9733	7.8	10
225	Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. <i>Scientific Reports</i> , <b>2017</b> , 7, 12082	4.9	42
224	Development of a Fiber-Optics Microspatially Offset Raman Spectroscopy Sensor for Probing Layered Materials. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9218-9223	7.8	17
223	Spatially offset Raman spectroscopy for photon migration studies in bones with different mineralization levels. <i>Analyst, The</i> , <b>2017</b> , 142, 3219-3226	5	13
222	Development of deep subsurface Raman spectroscopy for medical diagnosis and disease monitoring. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 1794-802	58.5	118
221	Exploring the effect of laser excitation wavelength on signal recovery with deep tissue transmission Raman spectroscopy. <i>Analyst, The</i> , <b>2016</b> , 141, 5738-5746	5	13
220	Determination of thickness of thin turbid painted over-layers using micro-scale spatially offset Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	11
219	The performance of spatially offset Raman spectroscopy for liquid explosive detection <b>2016</b> ,		1
218	Methodological evolutions of Raman spectroscopy in art and archaeology. <i>Analytical Methods</i> , <b>2016</b> , 8, 8395-8409	3.2	54
217	Fluorescence suppression using micro-scale spatially offset Raman spectroscopy. <i>Analyst, The</i> , <b>2016</b> , 141, 5374-81	5	16
216	Is the Collagen Primed for Mineralization in Specific Regions of the Turkey Tendon? An Investigation of the Protein-Mineral Interface Using Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1559-63	7.8	7
215	Single cell analysis/data handling: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 187, 299-327	3.6	4
214	Clinical Spectroscopy: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 187, 429-60	3.6	6
213	Micro-scale spatially offset Raman spectroscopy for non-invasive subsurface analysis of turbid materials. <i>Analyst, The</i> , <b>2016</b> , 141, 731-9	5	40
212	Photon migration of Raman signal in bone as measured with spatially offset Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 240-247	2.3	13
211	Analytical Capability of Defocused $\bar{\mu}$ -SORS in the Chemical Interrogation of Thin Turbid Painted Layers. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 156-61	3.1	9
210	Characterisation of signal enhancements achieved when utilizing a photon diode in deep Raman spectroscopy of tissue. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2130-41	3.5	8
209	Assessment of photon migration for subsurface probing in selected types of bone using spatially offset Raman spectroscopy <b>2016</b> ,		1

208	Contrasting confocal with defocusing microscale spatially offset Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 565-570	2.3	11
207	Non-invasive chemically specific measurement of subsurface temperature in biological tissues using surface-enhanced spatially offset Raman spectroscopy. <i>Faraday Discussions</i> , <b>2016</b> , 187, 329-39	3.6	17
206	Rapid quantification of low level polymorph content in a solid dose form using transmission Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 128, 35-45	3.5	34
205	Temperature Spatially Offset Raman Spectroscopy (T-SORS): Subsurface Chemically Specific Measurement of Temperature in Turbid Media Using Anti-Stokes Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 832-7	7.8	16
204	Development of portable defocusing micro-scale spatially offset Raman spectroscopy. <i>Analyst, The</i> , <b>2016</b> , 141, 3012-9	5	24
203	Comprehensive quantification of tablets with multiple active pharmaceutical ingredients using transmission Raman spectroscopy--a proof of concept study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 115, 277-82	3.5	25
202	The use of laser spectroscopy to investigate bone disease in King Henry VIII's sailors. <i>Journal of Archaeological Science</i> , <b>2015</b> , 53, 516-520	2.9	7
201	Studying the distribution of deep Raman spectroscopy signals using liquid tissue phantoms with varying optical properties. <i>Analyst, The</i> , <b>2015</b> , 140, 5112-9	5	28
200	Development of Transmission Raman Spectroscopy towards the in line, high throughput and non-destructive quantitative analysis of pharmaceutical solid oral dose. <i>Analyst, The</i> , <b>2015</b> , 140, 107-12	5	11
199	Monte Carlo simulations of subsurface analysis of painted layers in micro-scale spatially offset Raman spectroscopy. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 1091-5	3.1	18
198	Subsurface analysis of painted sculptures and plasters using micrometre-scale spatially offset Raman spectroscopy (micro-SORS). <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 476-482	2.3	59
197	Towards the prediction of fragility fractures with Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 610-618	2.3	44
196	Noninvasive analysis of thin turbid layers using microscale spatially offset Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5810-5	7.8	37
195	Spatially offset Raman spectroscopy for photon migration investigations in long bone <b>2015</b> ,		3
194	Comparison of key modalities of micro-scale spatially offset Raman spectroscopy. <i>Analyst, The</i> , <b>2015</b> , 140, 8127-33	5	36
193	Quantification of pharmaceuticals via transmission Raman spectroscopy: data sub-selection. <i>Analyst, The</i> , <b>2014</b> , 139, 74-8	5	6
192	Evidence from Raman spectroscopy of a putative link between inherent bone matrix chemistry and degenerative joint disease. <i>Arthritis and Rheumatology</i> , <b>2014</b> , 66, 1237-46	9.5	27
191	Measurement of abnormal bone composition in vivo using noninvasive Raman spectroscopy. <i>IBMS BoneKEy</i> , <b>2014</b> , 11, 602		27

190	Subsurface Raman analysis of thin painted layers. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 686-91	3.1	58
189	Variation in the transmission near-infrared signal with depth in turbid media. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 383-7	3.1	6
188	A novel approach for subsurface through-skin analysis of salmon using spatially offset Raman spectroscopy (SORS). <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 255-62	3.1	42
187	Millimeter-scale mapping of cortical bone reveals organ-scale heterogeneity. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 510-4	3.1	4
186	Subsurface Raman Spectroscopy in Turbid Media <b>2014</b> , 541-560		
185	Functional adaptation of long bone extremities involves the localized "tuning" of the cortical bone composition; evidence from Raman spectroscopy. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 111602	3.5	16
184	Decomposition of in vivo spatially offset Raman spectroscopy data using multivariate analysis techniques. <i>Journal of Raman Spectroscopy</i> , <b>2014</b> , 45, 188-192	2.3	33
183	Recent advances in the development of Raman spectroscopy for deep non-invasive medical diagnosis. <i>Journal of Biophotonics</i> , <b>2013</b> , 6, 7-19	3.1	118
182	Non-invasive identification of incoming raw pharmaceutical materials using Spatially Offset Raman Spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2013</b> , 76, 65-9	3.5	43
181	Pharmaceutical polymorphs quantified with transmission Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 280-285	2.3	20
180	Transmission Raman spectroscopy for quality control in model cocrystal tablets. <i>Analyst, The</i> , <b>2012</b> , 137, 3052-7	5	18
179	Non-Invasive Detection of Illicit Drugs Using Spatially Offset Raman Spectroscopy <b>2012</b> , 351-356		2
178	Raman spectroscopy reveals differences in collagen secondary structure which relate to the levels of mineralisation in bones that have evolved for different functions. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 1237-1243	2.3	35
177	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging [the next dimension]. <i>Chemical Science</i> , <b>2011</b> , 2, 776	9.4	141
176	Chemical and explosives point detection through opaque containers using spatially offset Raman spectroscopy (SORS) <b>2011</b> ,		4
175	Dependence of signal on depth in transmission Raman spectroscopy. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 724-33	3.1	29
174	Spatially offset Raman spectroscopy (SORS) for liquid screening <b>2011</b> ,		2
173	Non-invasive analysis of turbid samples using deep Raman spectroscopy. <i>Analyst, The</i> , <b>2011</b> , 136, 3039-59		64

172	Characterisation of transmission Raman spectroscopy for rapid quantitative analysis of intact multi-component pharmaceutical capsules. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 54, 463-8	3.5	38
171	Recent advances in the application of transmission Raman spectroscopy to pharmaceutical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 55, 645-52	3.5	92
170	Detection of concealed substances in sealed opaque plastic and coloured glass containers using SORS <b>2010</b> ,		10
169	The Vulcan 10 PW project. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 244, 032006	0.3	52
168	Design of the 10 PW OPCPA Facility for the Vulcan Laser <b>2010</b> ,		1
167	Prospects of deep Raman spectroscopy for noninvasive detection of conjugated surface enhanced resonance Raman scattering nanoparticles buried within 25 mm of mammalian tissue. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3969-73	7.8	112
166	Temporal and spatial resolution in transmission Raman spectroscopy. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 52-60	3.1	28
165	ULTRA: A Unique Instrument for Time-Resolved Spectroscopy. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 1311-9	3.1	154
164	Characterization of New Cocrystals by Raman Spectroscopy, Powder X-ray Diffraction, Differential Scanning Calorimetry, and Transmission Raman Spectroscopy. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 2360-2371	3.5	50
163	Towards a safe non-invasive method for evaluating the carbonate substitution levels of hydroxyapatite (HAP) in micro-calcifications found in breast tissue. <i>Analyst, The</i> , <b>2010</b> , 135, 3156-61	5	36
162	Transmission Raman spectroscopy as a tool for quantifying polymorphic content of pharmaceutical formulations. <i>Analyst, The</i> , <b>2010</b> , 135, 2328-33	5	52
161	Threat detection of liquid explosive precursor mixtures by Spatially Offset Raman Spectroscopy (SORS) <b>2009</b> ,		10
160	Application of portable Raman spectroscopy and benchtop spatially offset Raman spectroscopy to interrogate concealed biomaterials. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1875-1880	2.3	24
159	Emerging concepts in deep Raman spectroscopy of biological tissue. <i>Analyst, The</i> , <b>2009</b> , 134, 1058-66	5	84
158	Optical parametric chirped-pulse amplification source suitable for seeding high-energy systems. <i>Optics Letters</i> , <b>2008</b> , 33, 2386-8	3	39
157	Deep noninvasive Raman spectroscopy of turbid media. <i>Applied Spectroscopy</i> , <b>2008</b> , 62, 291A-304A	3.1	52
156	Enhancement of laser radiation coupled into turbid media by using a unidirectional mirror. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1223	1.7	6
155	Technique for enhancing signal in conventional backscattering fluorescence and Raman spectroscopy of turbid media. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6006-9	7.8	6

154	Probing the solvent dependent photophysics of fac-[Re(CO) <sub>3</sub> (dppz-X <sub>2</sub> )Cl] (dppz-X <sub>2</sub> = 11,12-X <sub>2</sub> -dipyrido[3,2-a:2',3'-c]phenazine); X = CH <sub>3</sub> , H, F, Cl, CF <sub>3</sub> ). <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 9857-69	5.1	53
153	Prediction of sublayer depth in turbid media using spatially offset Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8146-52	7.8	26
152	The early picosecond photophysics of Ru(II) polypyridyl complexes: a tale of two timescales. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 4537-44	2.8	81
151	Novel Raman signal recovery from deeply buried tissue components <b>2008</b> ,		3
150	Advanced transmission Raman spectroscopy: a promising tool for breast disease diagnosis. <i>Cancer Research</i> , <b>2008</b> , 68, 4424-30	10.1	134
149	Emerging non-invasive Raman methods in process control and forensic applications. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 2205-15	4.5	54
148	Passive signal enhancement in spatially offset Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2008</b> , 39, 633-637	2.3	18
147	Photooxidation of guanine by a ruthenium dipyridophenazine complex intercalated in a double-stranded polynucleotide monitored directly by picosecond visible and infrared transient absorption spectroscopy. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 369-75	4.8	92
146	Ultrafast excited state dynamics controlling photochemical isomerization of N-methyl-4-[trans-2-(4-pyridyl)ethenyl]pyridinium coordinated to a {Re I(CO) <sub>3</sub> (2,2'-bipyridine)} chromophore. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 6912-23	4.8	30
145	Non-invasive quantitative assessment of the content of pharmaceutical capsules using transmission Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 47, 221-9	3.5	82
144	Non-invasive detection of cocaine dissolved in beverages using displaced Raman spectroscopy. <i>Analytica Chimica Acta</i> , <b>2008</b> , 607, 50-3	6.6	48
143	Non-invasive detection of powders concealed within diffusely scattering plastic containers. <i>Vibrational Spectroscopy</i> , <b>2008</b> , 48, 8-11	2.1	36
142	Probing intraligand and charge transfer excited states of fac-[Re(R)(CO) <sub>3</sub> (CO <sub>2</sub> Et-dppz)] <sup>+</sup> (R = py, 4-Me(2)N-py; CO <sub>2</sub> Et-dppz = dipyrido[3,2a:2',3'-c]phenazine-11-carboxylic ethyl ester) using time-resolved infrared spectroscopy. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 1158-63	4.2	26
141	Subsurface probing of calcifications with spatially offset Raman spectroscopy (SORS): future possibilities for the diagnosis of breast cancer. <i>Analyst, The</i> , <b>2007</b> , 132, 899-905	5	155
140	Solvent effects on the charge transfer excited states of 4-dimethylaminobenzonitrile (DMABN) and 4-dimethylamino-3,5-dimethylbenzonitrile (TMABN) studied by time-resolved infrared spectroscopy: a direct observation of hydrogen bonding interactions. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 987-94	4.2	33
139	Picosecond time-resolved infrared study of 2-aminopurine ionisation in solution. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 949-55	4.2	4
138	Noninvasive detection of concealed liquid explosives using Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8185-9	7.8	116
137	Non-invasive probing of pharmaceutical capsules using transmission Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2007</b> , 38, 563-567	2.3	76



136	Ultrafast excited-state dynamics of photoisomerizing complexes fac-[Re(Cl)(CO) <sub>3</sub> (papy) <sub>2</sub> ] and fac-[Re(papy)(CO) <sub>3</sub> (bpy)] <sup>+</sup> (papy = trans-4-phenylazopyridine). <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 885-896	3.7	27
135	Solvent dependent photophysics of fac-[Re(CO) <sub>3</sub> (11,12-X(2)dppz)(py)] <sup>+</sup> (X = H, F or Me). <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 741-8	4.2	30
134	Characterization of genuine and fake artesunate anti-malarial tablets using Fourier transform infrared imaging and spatially offset Raman spectroscopy through blister packs. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 1525-32	4.4	94
133	Development of petawatt laser amplification systems at the Central Laser Facility <b>2007</b> ,		9
132	Spectroscopic study of optically induced ultrafast electron dynamics in gold. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	16
131	Prospects for the diagnosis of breast cancer by noninvasive probing of calcifications using transmission Raman spectroscopy. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 024008	3.5	76
130	Raman signal enhancement in deep spectroscopy of turbid media. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 845-54	3.1	56
129	Deep subsurface Raman spectroscopy of turbid media by a defocused collection system. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 1123-7	3.1	37
128	Deep non-invasive Raman spectroscopy of living tissue and powders. <i>Chemical Society Reviews</i> , <b>2007</b> , 36, 1292-304	58.5	138
127	Noninvasive authentication of pharmaceutical products through packaging using spatially offset Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1696-701	7.8	146
126	Depth profiling of calcifications in breast tissue using picosecond Kerr-gated Raman spectroscopy. <i>Analyst, The</i> , <b>2007</b> , 132, 48-53	5	74
125	Application of UV-Vis and resonance Raman spectroscopy to study bleaching and photoyellowing of thermomechanical pulps. <i>Holzforchung</i> , <b>2006</b> , 60, 231-238	2	32
124	Monitoring the direct and indirect damage of DNA bases and polynucleotides by using time-resolved infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 2150-3	11.5	60
123	Electronic structure and excited states of rhenium(I) amido and phosphido carbonyl-bipyridine complexes studied by picosecond time-resolved IR spectroscopy and DFT calculations. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 9789-97	5.1	33
122	Lignin radicals in the plant cell wall probed by Kerr-gated resonance Raman spectroscopy. <i>Biophysical Journal</i> , <b>2006</b> , 90, 2978-86	2.9	32
121	Picosecond time-resolved infrared spectroscopic investigation into electron localisation in the excited states of Re(I) polypyridyl complexes with bridging ligands. <i>Photochemical and Photobiological Sciences</i> , <b>2006</b> , 5, 82-7	4.2	10
120	Excited-state dynamics of structurally characterized [ReI(CO) <sub>3</sub> (phen)(HisX)] <sup>+</sup> (X = 83, 109) Pseudomonas aeruginosa azurins in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 4365-70	16.4	66
119	35 J broadband femtosecond optical parametric chirped pulse amplification system. <i>Optics Letters</i> , <b>2006</b> , 31, 3665-7	3	104

118	Noninvasive Raman spectroscopy of human tissue in vivo. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 758-63	3.1	178
117	Inverse spatially offset Raman spectroscopy for deep noninvasive probing of turbid media. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1341-7	3.1	129
116	Bulk Raman analysis of pharmaceutical tablets. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1353-7	3.1	132
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1	Excited-State Dynamics of Structurally Characterized [Re(CO) <sub>3</sub> (phen)(HisX)] <sup>+</sup> (X = 83, 109) Pseudomonas aeruginosa Azurins in Aqueous Solution		7