Pavel Matousek

List of Publications by Citations

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	The prospects for ultrashort pulse duration and ultrahigh intensity using optical parametric chirped pulse amplifiers. *Optics Communications*, **1997**, 144, 125-133	2	416
260	Subsurface probing in diffusely scattering media using spatially offset Raman spectroscopy. *Applied Spectroscopy*, **2005**, 59, 393-400	3.1	383
259	Ultrafast Measurements of Excited State Intramolecular Proton Transfer (ESIPT) in Room Temperature Solutions of 3-Hydroxyflavone and Derivatives. *Journal of Physical Chemistry A*, **2001**, 105, 3709-3718	2.8	206
258	Femtosecond time-resolved UV-visible absorption spectroscopy of trans-azobenzene: dependence on excitation wavelength. *Chemical Physics Letters*, **1998**, 290, 68-74	2.5	195
257	Efficient Rejection of Fluorescence from Raman Spectra Using Picosecond Kerr Gating. *Applied Spectroscopy*, **1999**, 53, 1485-1489	3.1	187
256	Analysis and optimization of optical parametric chirped pulse amplification. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 2945	1.7	186
255	Noninvasive Raman spectroscopy of human tissue in vivo. *Applied Spectroscopy*, **2006**, 60, 758-63	3.1	178
254	Observation of excited-state proton transfer in green fluorescent protein using ultrafast vibrational spectroscopy. *Journal of the American Chemical Society*, **2005**, 127, 2864-5	16.4	174
253	Numerical simulations of subsurface probing in diffusely scattering media using spatially offset Raman spectroscopy. *Applied Spectroscopy*, **2005**, 59, 1485-92	3.1	161
252	Subsurface probing of calcifications with spatially offset Raman spectroscopy (SORS): future possibilities for the diagnosis of breast cancer. *Analyst, The*, **2007**, 132, 899-905	5	155
251	ULTRA: A Unique Instrument for Time-Resolved Spectroscopy. *Applied Spectroscopy*, **2010**, 64, 1311-9	3.1	154
250	Noninvasive authentication of pharmaceutical products through packaging using spatially offset Raman spectroscopy. *Analytical Chemistry*, **2007**, 79, 1696-701	7.8	146
249	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging the next dimension. *Chemical Science*, **2011**, 2, 776	9.4	141
248	Development of a broadband picosecond infrared spectrometer and its incorporation into an existing ultrafast time-resolved resonance Raman, UV/visible, and fluorescence spectroscopic apparatus. *Applied Spectroscopy*, **2003**, 57, 367-80	3.1	139
247	Deep non-invasive Raman spectroscopy of living tissue and powders. *Chemical Society Reviews*, **2007**, 36, 1292-304	58.5	138
246	Fluorescence suppression in resonance Raman spectroscopy using a high-performance picosecond Kerr gate. *Journal of Raman Spectroscopy*, **2001**, 32, 983-988	2.3	137
245	Advanced transmission Raman spectroscopy: a promising tool for breast disease diagnosis. *Cancer Research*, **2008**, 68, 4424-30	10.1	134

244	Bulk Raman analysis of pharmaceutical tablets. *Applied Spectroscopy*, **2006**, 60, 1353-7	3.1	132
243	Inverse spatially offset Raman spectroscopy for deep noninvasive probing of turbid media. *Applied Spectroscopy*, **2006**, 60, 1341-7	3.1	129
242	Development of deep subsurface Raman spectroscopy for medical diagnosis and disease monitoring. *Chemical Society Reviews*, **2016**, 45, 1794-802	58.5	118
241	Recent advances in the development of Raman spectroscopy for deep non-invasive medical diagnosis. *Journal of Biophotonics*, **2013**, 6, 7-19	3.1	118
240	Probing the reactivity of photoinitiators for free radical polymerization: time-resolved infrared spectroscopic study of benzoyl radicals. *Journal of the American Chemical Society*, **2002**, 124, 14952-8	16.4	118
239	Noninvasive detection of concealed liquid explosives using Raman spectroscopy. *Analytical Chemistry*, **2007**, 79, 8185-9	7.8	116
238	Prospects of deep Raman spectroscopy for noninvasive detection of conjugated surface enhanced resonance Raman scattering nanoparticles buried within 25 mm of mammalian tissue. *Analytical Chemistry*, **2010**, 82, 3969-73	7.8	112
237	Generation of terawatt pulses by use of optical parametric chirped pulse amplification. *Applied Optics*, **2000**, 39, 2422-7	1.7	105
236	35 J broadband femtosecond optical parametric chirped pulse amplification system. *Optics Letters*, **2006**, 31, 3665-7	3	104
235	Picosecond Time-Resolved Raman Spectroscopy of Solids: Capabilities and Limitations for Fluorescence Rejection and the Influence of Diffuse Reflectance. *Applied Spectroscopy*, **2001**, 55, 1701-1708	2.1	103
234	Picosecond Time-Resolved Resonance Raman Probing of the Light-Switch States of [Ru(Phen)2dppz]2+. *Journal of Physical Chemistry B*, **2001**, 105, 12653-12664	3.4	100
233	Novel assessment of bone using time-resolved transcutaneous Raman spectroscopy. *Journal of Bone and Mineral Research*, **2005**, 20, 1968-72	6.3	97
232	Characterization of genuine and fake artesunate anti-malarial tablets using Fourier transform infrared imaging and spatially offset Raman spectroscopy through blister packs. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 1525-32	4.4	94
231	Recent advances in the application of transmission Raman spectroscopy to pharmaceutical analysis. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 55, 645-52	3.5	92
230	Photooxidation of guanine by a ruthenium dipyridophenazine complex intercalated in a double-stranded polynucleotide monitored directly by picosecond visible and infrared transient absorption spectroscopy. *Chemistry - A European Journal*, **2008**, 14, 369-75	4.8	92
229	Picosecond Relaxation of 3MLCT Excited States of [Re(Etpy)(CO)3(dmb)]+ and [Re(Cl)(CO)3(bpy)] as Revealed by Time-Resolved Resonance Raman, UV□is, and IR Absorption Spectroscopy. *Journal of Physical Chemistry A*, **2004**, 108, 2363-2369	2.8	92
228	The photophysics of fac-[Re(CO)3(dppz)(py)]+ in CH3CN: a comparative picosecond flash photolysis, transient infrared, transient resonance Raman and density functional theoretical study. *Photochemical and Photobiological Sciences*, **2003**, 2, 542-54	4.2	92
227	Fluorescence background suppression in Raman spectroscopy using combined Kerr gated and shifted excitation Raman difference techniques. *Journal of Raman Spectroscopy*, **2002**, 33, 238-242	2.3	91

226	Emerging concepts in deep Raman spectroscopy of biological tissue. *Analyst, The*, **2009**, 134, 1058-66	5	84
225	Ultrafast excited-state dynamics preceding a ligand trans-cis isomerization of fac-[Re(Cl)(CO)3(t-4-styrylpyridine)2] and fac-[Re(t-4-styrylpyridine)(CO)3(2,2'-bipyridine)]+. *Journal of Physical Chemistry A*, **2005**, 109, 3000-8	2.8	84
224	A Determination of the Structure of the Intramolecular Charge Transfer State of 4-Dimethylaminobenzonitrile (DMABN) by Time-Resolved Resonance Raman Spectroscopy. *Journal of Physical Chemistry A*, **2001**, 105, 984-990	2.8	84
223	Photon migration in Raman spectroscopy. *Applied Spectroscopy*, **2004**, 58, 591-7	3.1	83
222	Non-invasive quantitative assessment of the content of pharmaceutical capsules using transmission Raman spectroscopy. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 47, 221-9	3.5	82
221	The early picosecond photophysics of Ru(II) polypyridyl complexes: a tale of two timescales. *Journal of Physical Chemistry A*, **2008**, 112, 4537-44	2.8	81
220	Non-invasive probing of pharmaceutical capsules using transmission Raman spectroscopy. *Journal of Raman Spectroscopy*, **2007**, 38, 563-567	2.3	76
219	Prospects for the diagnosis of breast cancer by noninvasive probing of calcifications using transmission Raman spectroscopy. *Journal of Biomedical Optics*, **2007**, 12, 024008	3.5	76
218	Depth profiling of calcifications in breast tissue using picosecond Kerr-gated Raman spectroscopy. *Analyst, The*, **2007**, 132, 48-53	5	74
217	Direct observation of a hydrogen-bonded charge-transfer state of 4-dimethylaminobenzonitrile in methanol by time-resolved IR spectroscopy. *Angewandte Chemie - International Edition*, **2003**, 42, 1826-30	16.4	72
216	Picosecond Time-Resolved Study of 4-Dimethylaminobenzonitrile in Polar and Nonpolar Solvents. *Journal of Physical Chemistry A*, **2000**, 104, 4188-4197	2.8	72
215	Depth profiling in diffusely scattering media using Raman spectroscopy and picosecond Kerr gating. *Applied Spectroscopy*, **2005**, 59, 200-5	3.1	70
214	Tetracycline and derivatives□assignment of IR and Raman spectra via DFT calculations. *Physical Chemistry Chemical Physics*, **2003**, 5, 1149-1157	3.6	70
213	Using picosecond and nanosecond time-resolved infrared spectroscopy for the investigation of excited states and reaction intermediates of inorganic systems. *Dalton Transactions*, **2003**, 3996	4.3	68
212	Excited-state dynamics of structurally characterized [ReI(CO)3(phen)(HisX)]+ (X = 83, 109) Pseudomonas aeruginosa azurins in aqueous solution. *Journal of the American Chemical Society*, **2006**, 128, 4365-70	16.4	66
211	Excited States of 4-Aminobenzonitrile (ABN) and 4-Dimethylaminobenzonitrile (DMABN): Time-resolved Resonance Raman, Transient Absorption, Fluorescence, and ab Initio Calculations□ *Journal of Physical Chemistry A*, **2002**, 106, 3294-3305	2.8	66
210	Non-invasive analysis of turbid samples using deep Raman spectroscopy. *Analyst, The*, **2011**, 136, 3039-50	4	64
209	Ligand-to-diimine/metal-to-diimine charge-transfer excited states of [Re(NCS)(CO)3(alpha-diimine)] (alpha-diimine = 2,2'-bipyridine, di-iPr-N,N-1,4-diazabutadiene). A spectroscopic and computational study. *Journal of Physical Chemistry A*, **2005**, 109, 5016-25	2.8	64

208	Tunable picosecond optical parametric generator-amplifier system for time resolved Raman spectroscopy. *Measurement Science and Technology*, **1998**, 9, 816-823	2	64
207	Smart Gold Nanostructures for Light Mediated Cancer Theranostics: Combining Optical Diagnostics with Photothermal Therapy. *Advanced Science*, **2020**, 7, 1903441	13.6	62
206	Studies of the S1 state in a prototypical molecular wire using picosecond time-resolved spectroscopies. *Chemical Communications*, **2003**, 2406-7	5.8	61
205	Vibrational mode-selective effects in the picosecond time-resolved resonance Raman spectrum of singlet excited trans-stilbene. *Chemical Physics Letters*, **1993**, 208, 471-478	2.5	61
204	Monitoring the direct and indirect damage of DNA bases and polynucleotides by using time-resolved infrared spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2150-3	11.5	60
203	Subsurface analysis of painted sculptures and plasters using micrometre-scale spatially offset Raman spectroscopy (micro-SORS). *Journal of Raman Spectroscopy*, **2015**, 46, 476-482	2.3	59
202	Picosecond time-resolved resonance Raman observation of the iso-CH2I2 photoproduct from the photoisomerization reaction of diiodomethane in the solution phase. *Journal of Chemical Physics*, **2000**, 113, 7471-7478	3.9	59
201	Picosecond time-resolved spectroscopy of the photocolouration reaction of photochromic naphthoxazine-spiro-indolines. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 1331		59
200	Subsurface Raman analysis of thin painted layers. *Applied Spectroscopy*, **2014**, 68, 686-91	3.1	58
199	Unraveling the photochemistry of Fe(CO)5 in solution: observation of Fe(CO)3 and the conversion between 3Fe(CO)4 and 1Fe(CO)4(Solvent). *Journal of the American Chemical Society*, **2004**, 126, 10713-20	16.4	58
198	Raman signal enhancement in deep spectroscopy of turbid media. *Applied Spectroscopy*, **2007**, 61, 845-54	3.1	56
197	Methodological evolutions of Raman spectroscopy in art and archaeology. *Analytical Methods*, **2016**, 8, 8395-8409	3.2	54
196	Emerging non-invasive Raman methods in process control and forensic applications. *Pharmaceutical Research*, **2008**, 25, 2205-15	4.5	54
195	Fluorescence kinetics of aqueous solutions of tetracycline and its complexes with Mg2+ and Ca2+. *Photochemical and Photobiological Sciences*, **2003**, 2, 1107-17	4.2	54
194	Probing the solvent dependent photophysics of fac-[Re(CO)3(dppz-X2)Cl] (dppz-X2 = 11,12-X2-dipyrido[3,2-a:2',3'-c]phenazine); X = CH3, H, F, Cl, CF3). *Inorganic Chemistry*, **2008**, 47, 9857-69	5.1	53
193	The Vulcan 10 PW project. *Journal of Physics: Conference Series*, **2010**, 244, 032006	0.3	52
192	Transmission Raman spectroscopy as a tool for quantifying polymorphic content of pharmaceutical formulations. *Analyst, The*, **2010**, 135, 2328-33	5	52
191	Deep noninvasive Raman spectroscopy of turbid media. *Applied Spectroscopy*, **2008**, 62, 291A-304A	3.1	52

190	Monitoring the effect of ultrafast deactivation of the electronic excited states of DNA bases and polynucleotides following 267 nm laser excitation using picosecond time-resolved infrared spectroscopy. *Chemical Communications*, **2005**, 1182-4	5.8	52
189	Excited states of nitro-polypyridine metal complexes and their ultrafast decay. Time-resolved IR Absorption, spectroelectrochemistry, and TD-DFT calculations of fac-[Re(Cl)(CO)3(5-nitro-1,10-phenanthroline)]. *Journal of Physical Chemistry A*, **2005**, 109, 6147-53	2.8	51
188	Early photochemical dynamics of organometallic compounds studied by ultrafast time-resolved spectroscopic techniques. *Dalton Transactions RSC*, **2002**, 701-712		51
187	Characterization of New Cocrystals by Raman Spectroscopy, Powder X-ray Diffraction, Differential Scanning Calorimetry, and Transmission Raman Spectroscopy. *Crystal Growth and Design*, **2010**, 10, 2360-2371	3.5	50
186	Ultrafast photochemical dissociation of an equatorial CO ligand from trans(X,X)-[Ru(X)2(CO)2(bpy)] (X = Cl, Br, I): a picosecond time-resolved infrared spectroscopic and DFT computational study. *Inorganic Chemistry*, **2004**, 43, 7380-8	5.1	50
185	Mechanism and Dynamics of Interligand Electron Transfer in fac-[Re(MQ+)(CO)3(dmb)]2+. An Ultrafast Time-Resolved Visible and IR Absorption, Resonance Raman, and Emission Study (dmb = 4,4‐Dimethyl-2,2‐bipyridine, MQ+ = N-Methyl-4,4‐bipyridinium). *Journal of Physical Chemistry A*,	2.8	49
184	Photoelectron angular distributions as a probe of alignment evolution in a polyatomic molecule: Picosecond time- and angle-resolved photoelectron spectroscopy of S1 para-difluorobenzene. *Journal of Chemical Physics*, **1999**, 111, 1438-1445	3.9	49
183	Non-invasive detection of cocaine dissolved in beverages using displaced Raman spectroscopy. *Analytica Chimica Acta*, **2008**, 607, 50-3	6.6	48
182	Evaluation of an ultrabroadband high-gain amplification technique for chirped pulse amplification facilities. *Applied Optics*, **1999**, 38, 7486-93	1.7	48
181	Structural analysis of lignin by resonance Raman spectroscopy. *Macromolecular Bioscience*, **2005**, 5, 743-52	3.5	45
180	Towards the prediction of fragility fractures with Raman spectroscopy. *Journal of Raman Spectroscopy*, **2015**, 46, 610-618	2.3	44
179	A measurement of the 1S‐2S transition frequency in muonium. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1994**, 187, 247-254	2.3	44
178	Non-invasive identification of incoming raw pharmaceutical materials using Spatially Offset Raman Spectroscopy. *Journal of Pharmaceutical and Biomedical Analysis*, **2013**, 76, 65-9	3.5	43
177	Kerr-gated time-resolved Raman spectroscopy of equine cortical bone tissue. *Journal of Biomedical Optics*, **2005**, 10, 14014	3.5	43
176	A novel approach for subsurface through-skin analysis of salmon using spatially offset Raman spectroscopy (SORS). *Applied Spectroscopy*, **2014**, 68, 255-62	3.1	42
175	Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. *Scientific Reports*, **2017**, 7, 12082	4.9	42
174	Rhenium-to-benzoylpyridine and rhenium-to-bipyridine MLCT excited states of fac-[Re(Cl)(4-benzoylpyridine)(2)(CO)(3)] and fac-[Re(4-benzoylpyridine)(CO)(3)(bpy)](+): a time-resolved spectroscopic and spectroelectrochemical study. *Inorganic Chemistry*, **2004**, 43, 4523-30	5.1	42
173	Isotope effects on the picosecond time-resolved emission spectroscopy of tris(2,2'-bipyridine)ruthenium (II). *Journal of the American Chemical Society*, **2003**, 125, 1706-7	16.4	41

172	Micro-scale spatially offset Raman spectroscopy for non-invasive subsurface analysis of turbid materials. *Analyst, The*, **2016**, 141, 731-9	5	40
171	Optical parametric chirped-pulse amplification source suitable for seeding high-energy systems. *Optics Letters*, **2008**, 33, 2386-8	3	39
170	Excited-state dynamics of fac-[ReI(L)(CO)3(phen)]+ and fac-[ReI(L)(CO)3(5-NO2-phen)]+ (L = imidazole, 4-ethylpyridine; phen = 1,10-phenanthroline) complexes. *Inorganic Chemistry*, **2004**, 43, 4994-5002	5.1	39
169	Picosecond time-resolved resonance Raman observation of the iso-CH2Cl□and iso-CH2I□Cl photoproducts from the □photoisomerization□reactions of CH2ICl in the solution phase. *Journal of Chemical Physics*, **2001**, 114, 7536-7543	3.9	39
168	Characterisation of transmission Raman spectroscopy for rapid quantitative analysis of intact multi-component pharmaceutical capsules. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 54, 463-8	3.5	38
167	Simple reconstruction algorithm for shifted excitation Raman difference spectroscopy. *Applied Spectroscopy*, **2005**, 59, 848-51	3.1	38
166	Noninvasive analysis of thin turbid layers using microscale spatially offset Raman spectroscopy. *Analytical Chemistry*, **2015**, 87, 5810-5	7.8	37
165	Deep subsurface Raman spectroscopy of turbid media by a defocused collection system. *Applied Spectroscopy*, **2007**, 61, 1123-7	3.1	37
164	Direct observation of competitive ultrafast CO dissociation and relaxation of an MLCT excited state: picosecond time-resolved infrared spectroscopic study of [Cr(CO)(4)(2,2'-bipyridine)]. *Inorganic Chemistry*, **2002**, 41, 4318-23	5.1	37
163	Comparison of key modalities of micro-scale spatially offset Raman spectroscopy. *Analyst, The*, **2015**, 140, 8127-33	5	36
162	Towards a safe non-invasive method for evaluating the carbonate substitution levels of hydroxyapatite (HAP) in micro-calcifications found in breast tissue. *Analyst, The*, **2010**, 135, 3156-61	5	36
161	Non-invasive detection of powders concealed within diffusely scattering plastic containers. *Vibrational Spectroscopy*, **2008**, 48, 8-11	2.1	36
160	The anti-Stokes resonance Raman spectrum of photoexcited S1 trans-stilbene. *Chemical Physics Letters*, **1995**, 237, 373-379	2.5	36
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158	Raman spectroscopy reveals differences in collagen secondary structure which relate to the levels of mineralisation in bones that have evolved for different functions. *Journal of Raman Spectroscopy*, **2012**, 43, 1237-1243	2.3	35
157	Time-resolved resonance Raman spectra of the intramolecular charge transfer state of DMABN. *Chemical Physics Letters*, **2000**, 322, 395-400	2.5	35
156	A high-sensitivity femtosecond to microsecond time-resolved infrared vibrational spectrometer. *Applied Spectroscopy*, **2005**, 59, 467-73	3.1	34
155	5□0 keV laser-induced x-ray generation at 1 kHz from a liquid-jet target. *Review of Scientific Instruments*, **1998**, 69, 3113-3117	1.7	34

154	Rapid quantification of low level polymorph content in a solid dose form using transmission Raman spectroscopy. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 128, 35-45	3.5	34
153	Decomposition of in vivo spatially offset Raman spectroscopy data using multivariate analysis techniques. *Journal of Raman Spectroscopy*, **2014**, 45, 188-192	2.3	33
152	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. *Photochemical and Photobiological Sciences*, **2007**, 6, 987-94	4.2	33
151	Electronic structure and excited states of rhenium(I) amido and phosphido carbonyl-bipyridine complexes studied by picosecond time-resolved IR spectroscopy and DFT calculations. *Inorganic Chemistry*, **2006**, 45, 9789-97	5.1	33
150	Further time-resolved spectroscopic investigations on the intramolecular charge transfer state of 4-dimethylaminobenzonitrile (DMABN) and its derivatives, 4-diethylaminobenzonitrile (DEABN) and 4-dimethylamino-3,5-dimethylbenzonitrile (TMABN). *Physical Chemistry Chemical Physics*, **2003**, 5, 1043-1050	3.6	33
149	Design of a multi-petawatt optical parametric chirped pulse amplifier for the iodine laser ASTERIX IV. *IEEE Journal of Quantum Electronics*, **2000**, 36, 158-163	2	33
148	Femtosecond Spectroscopic Study of MLCT Excited-State Dynamics of Cr(CO)4(bpy): Excitation-Energy-Dependent Branching between CO Dissociation and Relaxation. *Journal of the American Chemical Society*, **1999**, 121, 5296-5301	16.4	33
147	Application of UV-Vis and resonance Raman spectroscopy to study bleaching and photoyellowing of thermomechanical pulps. *Holzforschung*, **2006**, 60, 231-238	2	32
146	Lignin radicals in the plant cell wall probed by Kerr-gated resonance Raman spectroscopy. *Biophysical Journal*, **2006**, 90, 2978-86	2.9	32
145	Picosecond Kerr-gated time-resolved resonance Raman spectroscopy of the [Ru(phen)(2)dppz](2+) interaction with DNA. *Journal of Inorganic Biochemistry*, **2002**, 91, 286-97	4.2	31
144	Picosecond time-resolved resonance Raman observation of Iso-CH2Br□following A-band photodissociation of CH2BrI in the solution phase. *Chemical Physics Letters*, **2001**, 341, 292-298	2.5	31
143	Two independently tunable and synchronised femtosecond pulses generated in the visible at the repetition rate 40 kHz using optical parametric amplifiers. *Optics Communications*, **1996**, 127, 307-312	2	31
142	Solvent dependent photophysics of fac-[Re(CO)(3)(11,12-X(2)dppz)(py)](+)(X = H, F or Me). *Photochemical and Photobiological Sciences*, **2007**, 6, 741-8	4.2	30
141	Ultrafast excited state dynamics controlling photochemical isomerization of N-methyl-4-[trans-2-(4-pyridyl)ethenyl]pyridinium coordinated to a {Re I(CO)3(2,2'-bipyridine)} chromophore. *Chemistry - A European Journal*, **2008**, 14, 6912-23	4.8	30
140	PtII diimine chromophores with perfluorinated thiolate ligands: nature and dynamics of the charge-transfer-to-diimine lowest excited state. *Inorganic Chemistry*, **2003**, 42, 7077-85	5.1	30
139	Dependence of signal on depth in transmission Raman spectroscopy. *Applied Spectroscopy*, **2011**, 65, 724-33	3.1	29
138	A picosecond time-resolved resonance Raman study of S1 cis-stilbene. *Chemical Physics Letters*, **1997**, 278, 56-62	2.5	29
137	Excited-state characters and dynamics of [W(CO)(5)(4-cyanopyridine)] and [W(CO)(5)(piperidine)] studied by picosecond time-resolved IR and resonance Raman spectroscopy and DFT calculations: roles of W --> L and W --> CO MLCT and LF excited states revised. *Inorganic Chemistry*, **2004**, 43, 1723-34	5.1	29

136	Studying the distribution of deep Raman spectroscopy signals using liquid tissue phantoms with varying optical properties. *Analyst, The*, **2015**, 140, 5112-9	5	28
135	Temporal and spatial resolution in transmission Raman spectroscopy. *Applied Spectroscopy*, **2010**, 64, 52-60	3.1	28
134	Raman spectroscopy of street samples of cocaine obtained using Kerr gated fluorescence rejection. *Analyst, The*, **2004**, 129, 505-6	5	28
133	Evidence from Raman spectroscopy of a putative link between inherent bone matrix chemistry and degenerative joint disease. *Arthritis and Rheumatology*, **2014**, 66, 1237-46	9.5	27
132	Measurement of abnormal bone composition in vivo using noninvasive Raman spectroscopy. *IBMS BoneKEy*, **2014**, 11, 602		27
131	Ultrafast excited-state dynamics of photoisomerizing complexes fac-[Re(Cl)(CO)3(papy)2] and fac-[Re(papy)(CO)3(bpy)]+ (papy = trans-4-phenylazopyridine). *Inorganica Chimica Acta*, **2007**, 360, 885-896	2.7	27
130	Prediction of sublayer depth in turbid media using spatially offset Raman spectroscopy. *Analytical Chemistry*, **2008**, 80, 8146-52	7.8	26
129	Probing intraligand and charge transfer excited states of fac-[Re(R)(CO)(3)(CO(2)Et-dppz)](+) (R = py, 4-Me(2)N-py; CO(2)Et-dppz = dipyrido[3,2a:2',3'c]phenazine-11-carboxylic ethyl ester) using time-resolved infrared spectroscopy. *Photochemical and Photobiological Sciences*, **2007**, 6, 1158-63	4.2	26
128	Detailed Picosecond Kerr-Gated Time-Resolved Resonance Raman Spectroscopy and Time-Resolved Emission Studies of Merocyanine 540 in Various Solvents. *Journal of Physical Chemistry A*, **2003**, 107, 4347-4353	2.8	26
127	Comprehensive quantification of tablets with multiple active pharmaceutical ingredients using transmission Raman spectroscopy--a proof of concept study. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 115, 277-82	3.5	25
126	Time-Resolved Study of the Triplet State of 4-dimethylaminobenzonitrile (DMABN). *Journal of Physical Chemistry A*, **2001**, 105, 4648-4652	2.8	25
125	Development of a full micro-scale spatially offset Raman spectroscopy prototype as a portable analytical tool. *Analyst, The*, **2017**, 142, 351-355	5	24
124	Application of portable Raman spectroscopy and benchtop spatially offset Raman spectroscopy to interrogate concealed biomaterials. *Journal of Raman Spectroscopy*, **2009**, 40, 1875-1880	2.3	24
123	Development of portable defocusing micro-scale spatially offset Raman spectroscopy. *Analyst, The*, **2016**, 141, 3012-9	5	24
122	Use of picosecond Kerr-gated Raman spectroscopy to suppress signals from both surface and deep layers in bladder and prostate tissue. *Journal of Biomedical Optics*, **2005**, 10, 44006	3.5	23
121	Spatially offset Raman spectroscopy for non-invasive analysis of turbid samples. *TrAC - Trends in Analytical Chemistry*, **2018**, 103, 209-214	14.6	22
120	High sensitivity non-invasive detection of calcifications deep inside biological tissue using Transmission Raman Spectroscopy. *Journal of Biophotonics*, **2018**, 11, e201600260	3.1	22
119	The picosecond timescale relaxation of photoexcited quaterphenyl in solution. *Journal of Chemical Physics*, **1997**, 107, 9807-9817	3.9	22

118	Optical characterization of porcine tissues from various organs in the 650-1100 nm range using time-domain diffuse spectroscopy. *Biomedical Optics Express*, **2020**, 11, 1697-1706	3.5	22
117	Spatially Offset and Transmission Raman Spectroscopy for Determination of Depth of Inclusion in Turbid Matrix. *Analytical Chemistry*, **2019**, 91, 8994-9000	7.8	21
116	Picosecond time-resolved infrared investigation into the nature of the lowest excited state of fac-[Re(Cl)(CO)3(CO2Et-dppz)] (CO2Et-dppz = dipyrido[3,2a:2?,3?c]phenazine-11-carboxylic ethyl ester). *Vibrational Spectroscopy*, **2004**, 35, 219-223	2.1	21
115	Pharmaceutical polymorphs quantified with transmission Raman spectroscopy. *Journal of Raman Spectroscopy*, **2012**, 43, 280-285	2.3	20
114	Resonance Raman spectroscopy of highly fluorescing lignin containing chemical pulps: Suppression of fluorescence with an optical Kerr gate. *Holzforschung*, **2004**, 58, 82-90	2	20
113	Picosecond time-resolved infrared spectroscopic investigation of excited state dynamics in a PtII diimine chromophore. *Chemical Communications*, **2002**, 382-3	5.8	20
112	Solvent effects on the photophysical and photochemical properties of (E,E,E)-1,6-bis(4-nitrophenyl)hexa-1,3,5-triene. *Perkin Transactions II RSC*, **2001**, 308-314		20
111	Picosecond Time-Resolved Resonance Raman Study of CH2I Produced after Ultraviolet Photolysis of CH2I2 in CH3OH, CH3CN/H2O and CH3OH/H2O Solutions. *Journal of Physical Chemistry A*, **2003**, 107, 2624-2628	2.8	19
110	Prospects for a multi-PW source using optical parametric chirped pulse amplifiers. *Laser and Particle Beams*, **1999**, 17, 331-340	0.9	19
109	Spatially offset Raman spectroscopy. *Nature Reviews Methods Primers*, **2021**, 1,		19
108	Monte Carlo simulations of subsurface analysis of painted layers in micro-scale spatially offset Raman spectroscopy. *Applied Spectroscopy*, **2015**, 69, 1091-5	3.1	18
107	Transmission Raman spectroscopy for quality control in model cocrystal tablets. *Analyst, The*, **2012**, 137, 3052-7	5	18
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