Andrzej Kudelski

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142 papers	3,490 citations	32 h-index	51 g-index
147 ext. papers	3,904 ext. citations	3.6 avg, IF	5.92 L-index

#	Paper	IF	Citations
142	Analytical applications of Raman spectroscopy. *Talanta*, **2008**, 76, 1-8	6.2	215
141	Raman studies of rhodamine 6G and crystal violet sub-monolayers on electrochemically roughened silver substrates: Do dye molecules adsorb preferentially on highly SERS-active sites?. *Chemical Physics Letters*, **2005**, 414, 271-275	2.5	161
140	SERS on carbon chain segments: monitoring locally surface chemistry. *Chemical Physics Letters*, **2000**, 321, 356-362	2.5	151
139	SERS studies on the structure of thioglycolic acid monolayers on silver and gold. *Surface Science*, **2003**, 532-535, 227-232	1.8	137
138	Plasmonic nanoparticles in chemical analysis. *RSC Advances*, **2017**, 7, 17559-17576	3.7	92
137	Structures of monolayers formed from different HS(CH2)2X thiols on gold, silver and copper: comparitive studies by surface-enhanced Raman scattering. *Journal of Raman Spectroscopy*, **2003**, 34, 853-862	2.3	92
136	Raman Study on the Structure of Cysteamine Monolayers on Silver. *Langmuir*, **1999**, 15, 3162-3168	4	89
135	Explicit versus implicit solvent modeling of Raman optical activity spectra. *Journal of Physical Chemistry B*, **2011**, 115, 4128-37	3.4	82
134	Surface-enhanced Raman scattering (SERS) at Copper(I) oxide. *Journal of Raman Spectroscopy*, **1998**, 29, 431-435	2.3	72
133	Raman spectroscopy of surfaces. *Surface Science*, **2009**, 603, 1328-1334	1.8	69
132	Characterization of thiolate-based mono- and bilayers by vibrational spectroscopy: A review. *Vibrational Spectroscopy*, **2005**, 39, 200-213	2.1	68
131	Surface-enhanced Raman scattering (SERS) activity of Ag, Au and Cu nanoclusters on TiO2-nanotubes/Ti substrate. *Applied Surface Science*, **2011**, 257, 8182-8189	6.7	65
130	Chemisorption of 2-Mercaptoethanol on Silver, Copper, and Gold: Direct Raman Evidence of Acid-Induced Changes in Adsorption/Desorption Equilibria. *Langmuir*, **2003**, 19, 3805-3813	4	62
129	Fluctuations of surface-enhanced Raman spectra of CO adsorbed on gold substrates. *Chemical Physics Letters*, **2004**, 383, 76-79	2.5	58
128	Anion-induced charge-transfer enhancement in SERS and SERRS spectra of Rhodamine 6G on a silver electrode: how important is it?. *Journal of Raman Spectroscopy*, **1998**, 29, 681-685	2.3	54
127	Chemisorption of Cysteamine on Silver Studied by Surface-Enhanced Raman Scattering. *Langmuir*, **2000**, 16, 10236-10242	4	49
126	Molecular structure of cysteamine monolayers on silver and gold substrates. *Surface Science*, **2002**, 502-503, 214-218	1.8	45

125	Role of various nanoparticles in photodynamic therapy and detection methods of singlet oxygen. *Photodiagnosis and Photodynamic Therapy*, **2019**, 26, 162-178	3.5	43
124	Characterization of the copper surface optimized for use as a substrate for surface-enhanced Raman scattering. *Vibrational Spectroscopy*, **1998**, 16, 21-29	2.1	41
123	In situ spectroelectrochemical surface-enhanced Raman scattering (SERS) investigations on composite Ag/TiO2-nanotubes/Ti substrates. *Surface Science*, **2009**, 603, 2820-2824	1.8	38
122	Raman and Electrochemical Characterization of 2-Mercaptoethanesulfonate Monolayers on Silver: A Comparison with Monolayers of 3-Mercaptopropionic Acid. *Langmuir*, **2002**, 18, 4741-4747	4	38
121	Spectroelectrochemical and EPR determination of the number of electrons transferred in redox processes in electroactive polymers. Polyindole films. *Electrochimica Acta*, **1994**, 39, 1365-1368	6.7	38
120	Electro-oxidation of o-aminophenol studied by cyclic voltammetry and surface enhanced Raman scattering (SERS). *Journal of Electroanalytical Chemistry*, **1993**, 350, 177-187	4.1	38
119	Vibrational optical activity of cysteine in aqueous solution: a comparison of theoretical and experimental spectra. *Journal of Physical Chemistry B*, **2012**, 116, 4976-90	3.4	37
118	The role of Ag particles deposited on TiO2 or Al2O3 self-organized nanoporous layers in their behavior as SERS-active and biomedical substrates. *Materials Chemistry and Physics*, **2013**, 139, 55-65	4.4	36
117	The chemical effect in surface enhanced Raman scattering (SERS) for piperidine adsorbed on a silver electrode. *Surface Science*, **1996**, 368, 396-400	1.8	36
116	Influence of electrostatically bound proteins on the structure of linkage monolayers: adsorption of bovine serum albumin on silver and gold substrates coated with monolayers of 2-mercaptoethanesulphonate. *Vibrational Spectroscopy*, **2003**, 33, 197-204	2.1	35
115	Influence of oxygen on the process of formation of silver nanoparticles during citrate/borohydride synthesis of silver sols. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 410, 45-51	5.1	34
114	Raman investigations of TiO2 nanotube substrates covered with thin Ag or Cu deposits. *Journal of Raman Spectroscopy*, **2009**, 40, 1652-1656	2.3	33
113	Influence of electrolytes on the structure of cysteamine monolayer on silver studied by surface-enhanced Raman scattering. *Journal of Raman Spectroscopy*, **2001**, 32, 345-350	2.3	33
112	Circularly polarized component in surface-enhanced Raman spectra. *Chemical Physics Letters*, **2010**, 496, 86-90	2.5	32
111	Raman study on the structure of 3-mercaptopropionic acid monolayers on silver. *Surface Science*, **2002**, 502-503, 219-223	1.8	32
110	The use of Surface Enhanced Raman Scattering (SERS) to probe the interaction of imidazole with the silver electrode surface. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 309, 251-261		31
109	Influence of aliphatic spacer group on adsorption mechanisms of phosphonate derivatives of l-phenylalanine: Surface-enhanced Raman, Raman, and infrared studies. *Surface Science*, **2007**, 601, 4586-4597	1.8	30
108	Influence of anions on formation and electroacitivity of poly-2,5-dimethoxyaniline. *Synthetic Metals*, **2000**, 108, 111-119	3.6	30

107	Synthesis of core–shell silver–platinum nanoparticles, improving shell integrity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 178-183	5.1	29
106	Surface Enhanced Raman Spectroscopy for DNA Biosensors-How Far Are We?. *Molecules*, **2019**, 24,	4.8	29
105	Silica-Protected Hollow Silver and Gold Nanoparticles: New Material for Raman Analysis of Surfaces. *Journal of Physical Chemistry C*, **2015**, 119, 20030-20038	3.8	28
104	Structure of monolayers formed from neurotensin and its single-site mutants: vibrational spectroscopic studies. *Journal of Physical Chemistry B*, **2011**, 115, 6709-21	3.4	27
103	Raman investigations of SERS activity of Ag nanoclusters on a TiO2-nanotubes/Ti substrate. *Vibrational Spectroscopy*, **2011**, 55, 38-43	2.1	27
102	Adsorption mechanism of physiologically active l-phenylalanine phosphonodipeptide analogues: Comparison of colloidal silver and macroscopic silver substrates. *Surface Science*, **2007**, 601, 4971-4983	1.8	27
101	Fluctuations of Raman spectra of hydrogenated amorphous carbon deposited on electrochemically-roughened silver. *Chemical Physics Letters*, **2006**, 427, 206-209	2.5	27
100	Au–Cu Alloyed Plasmonic Layer on Nanostructured GaN for SERS Application. *Journal of Physical Chemistry C*, **2016**, 120, 1841-1846	3.8	26
99	Silica-Covered Silver and Gold Nanoresonators for Raman Analysis of Surfaces of Various Materials. *Journal of Physical Chemistry C*, **2012**, 116, 16167-16174	3.8	26
98	Relationship between the nano-structure of GaN surfaces and SERS efficiency: Chasing hot-spots. *Applied Surface Science*, **2019**, 466, 554-561	6.7	26
97	Interaction of 2-mercaptoethanesulfonate monolayers on silver with sodium cations. *Journal of Raman Spectroscopy*, **2002**, 33, 796-800	2.3	25
96	Surface-enhanced Raman scattering (SERS) on copper electrodeposited under nonequilibrium conditions. *Journal of Molecular Structure*, **1999**, 482-483, 245-248	3.4	25
95	New strategy for the gene mutation identification using surface enhanced Raman spectroscopy (SERS). *Biosensors and Bioelectronics*, **2019**, 132, 326-332	11.8	24
94	Enhanced catalytic activity of solid and hollow platinum-cobalt nanoparticles towards reduction of 4-nitrophenol. *Applied Surface Science*, **2016**, 388, 624-630	6.7	24
93	Silver Nanoparticles with Many Sharp Apexes and Edges as Efficient Nanoresonators for Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. *Journal of Physical Chemistry C*, **2017**, 121, 12383-12391	3.8	23
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91	Surface-enhanced Raman scattering investigations on silver nanoparticles deposited on alumina and titania nanotubes: influence of the substrate material on surface-enhanced Raman scattering activity of Ag nanoparticles. *Journal of Raman Spectroscopy*, **2012**, 43, 1360-1366	2.3	23
90	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. *Frontiers in Chemistry*, **2019**, 7, 410	5	22

89	Surface-enhanced Raman scattering study of monolayers formed from mixtures of 4-mercaptobenzoic acid and various aromatic mercapto-derivative bases. *Journal of Raman Spectroscopy*, **2009**, 40, 2037-2043	2.3	22
88	Modification of surface activity of Cu-based amorphous alloys by chemical processes of metal degradation. *Applied Catalysis A: General*, **2002**, 235, 157-170	5.1	21
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85	Raman studies on the coverage integrity of monolayers formed on silver from various ω-functionalised alkanethiols. *Vibrational Spectroscopy*, **2006**, 41, 83-89	2.1	19
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63	Role of O2 in inducing intensive fluctuations of surface-enhanced Raman scattering spectra. *Journal of Physical Chemistry B*, **2006**, 110, 12610-5	3.4	13
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58	Applications of Surface-Enhanced Raman Scattering in Biochemical and Medical Analysis. *Frontiers in Chemistry*, **2021**, 9, 664134	5	12
57	Solvent trapping during the self-assembly of octadecanethiol monolayer on roughened gold electrodes from surface-enhanced Raman scattering studies. *Journal of Electroanalytical Chemistry*, **1998**, 443, 5-7	4.1	11
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40	Potential dependence of a number of the □esidual□spins in the electronically conducting polymer matrix. *Synthetic Metals*, **1998**, 95, 87-91	3.6	8
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33	Vibrational characterization of aminophosphinic acid derivatives of pyridine: DFT, Raman and SERS spectroscopy studies. *Vibrational Spectroscopy*, **2016**, 83, 115-125	2.1	6
32	Raman characterization of monolayers formed from mixtures of sodium 2-mercaptoethanesulfonate and various aromatic mercapto-derivative bases. *Journal of Physical Chemistry B*, **2010**, 114, 5180-9	3.4	6
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27	SERS Studies of Adsorption on Gold Surfaces of Mononucleotides with Attached Hexanethiol Moiety: Comparison with Selected Single-Stranded Thiolated DNA Fragments. *Molecules*, **2019**, 24,	4.8	5
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22	Preparation of silver hollow nanostructures by plasmon-driven transformation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 443, 102-108	5.1	4
21	Local monitoring of surface chemistry with Raman spectroscopy. *Journal of Solid State Electrochemistry*, **2009**, 13, 225-230	2.6	4
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13	Photochemical synthesis of different silver nanostructures **2015**,		2
12	Adsorption of (Phe-h)/(Phe-d)-substituted peptides from neurotensin family on the nanostructured surfaces of Ag and Cu: SERS studies. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 242, 118748	4.4	2
11	Titanium (IV) Oxide Nanotubes in Design of Active SERS Substrates for High Sensitivity Analytical Applications: Effect of Geometrical Factors in Nanotubes and in Ag-n Deposits **2018**,		2
10	Surface-enhanced Raman scattering (SERS) at Copper(I) oxide **1998**, 29, 431		2
9	The First Silver-Based Plasmonic Nanomaterial for Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy with Magnetic Properties. *Molecules*, **2022**, 27, 3081	4.8	2
8	A few molecules surface-enhanced Raman scattering studies on nickel-modified silver substrates. *Chemical Physics Letters*, **2008**, 457, 434-438	2.5	1
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3	Electrochemical Preparation of Nanoresonators **2015**, 1-20		
2	Shell-isolated nanoparticle-enhanced Raman spectroscopy: a review **2020**, 387-414		
1	The role of oxygen in plasmon-driven transformation of silver nanoparticles. *Applied Surface Science* , **2016**, 388, 710-715	6.7	