Václav Ranc

List of Publications by Year in descending order

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		236612	197535
72	2,585	25	49
papers	citations	h-index	g-index
75	75	75	4955
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Ultrathin Hierarchical Porous Carbon Nanosheets for Highâ€Performance Supercapacitors and Redox Electrolyte Energy Storage. Advanced Materials, 2018, 30, e1705789.	11.1	309
2	Nanoporous Nitrogenâ€Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metalâ€Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1700451.	7.8	198
3	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. ACS Nano, 2017, 11, 2982-2991.	7.3	133
4	Covalent Grapheneâ€MOF Hybrids for Highâ€Performance Asymmetric Supercapacitors. Advanced Materials, 2021, 33, e2004560.	11.1	121
5	Shapeâ€Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithiumâ€Ion Battery Electrodes. Advanced Functional Materials, 2019, 29, 1902539.	7.8	118
6	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 24991-24996.	1.5	117
7	Room temperature organic magnets derived from sp3 functionalized graphene. Nature Communications, 2017, 8, 14525.	5.8	112
8	Ultrathin 2D Cobalt Zeoliteâ€lmidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. Advanced Science, 2018, 5, 1801029.	5.6	92
9	Quaternized carbon dot-modified graphene oxide for selective cell labelling – controlled nucleus and cytoplasm imaging. Chemical Communications, 2014, 50, 10782.	2.2	82
10	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe ₃ O ₄ /Ag Nanocomposite. Analytical Chemistry, 2014, 86, 2939-2946.	3.2	77
11	Fluorinated graphenes as advanced biosensors – effect of fluorine coverage on electron transfer properties and adsorption of biomolecules. Nanoscale, 2016, 8, 12134-12142.	2.8	60
12	Gold nanoparticle-decorated graphene oxide: Synthesis and application in oxidation reactions under benign conditions. Journal of Molecular Catalysis A, 2016, 424, 121-127.	4.8	57
13	Functional Nanosheet Synthons by Covalent Modification of Transition-Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 2066-2073.	3.2	56
14	Magnetically-Assisted Surface Enhanced Raman Spectroscopy (MA-SERS) for Label-Free Determination of Human Immunoglobulin G (IgG) in Blood Using Fe ₃ O ₄ @Ag Nanocomposite. Analytical Chemistry, 2014, 86, 11107-11114.	3.2	55
15	Mice lacking circadian clock components display different mood-related behaviors and do not respond uniformly to chronic lithium treatment. Chronobiology International, 2015, 32, 1075-1089.	0.9	46
16	Reproducible discrimination between Gram-positive and Gram-negative bacteria using surface enhanced Raman spectroscopy with infrared excitation. Analyst, The, 2012, 137, 2866.	1.7	45
17	Continuous flow hydrogenation of nitroarenes, azides and alkenes using maghemite–Pd nanocomposites. Catalysis Science and Technology, 2016, 6, 152-160.	2.1	45
18	Baseâ€Free Transfer Hydrogenation of Nitroarenes Catalyzed by Microâ€Mesoporous Iron Oxide. ChemCatChem, 2016, 8, 2351-2355.	1.8	44

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19	Synthesis of flower-like magnetite nanoassembly: Application in the efficient reduction of nitroarenes. Scientific Reports, 2017, 7, 11585.	1.6	44
20	Micro–mesoporous iron oxides with record efficiency for the decomposition of hydrogen peroxide: morphology driven catalysis for the degradation of organic contaminants. Journal of Materials Chemistry A, 2016, 4, 596-604.	5.2	42
21	Fast profiling of anthocyanins in wine by desorption nano-electrospray ionization mass spectrometry. Journal of Chromatography A, 2010, 1217, 4223-4228.	1.8	41
22	Oxidative degradation of triazine- and sulfonylurea-based herbicides using Fe(VI): The case study of atrazine and iodosulfuron with kinetics and degradation products. Separation and Purification Technology, 2015, 156, 1041-1046.	3.9	37
23	Study on the use of boromycin as a chiral selector in capillary electrophoresis. Journal of Chromatography A, 2012, 1237, 128-132.	1.8	30
24	Re-crystallization of silver nanoparticles in a highly concentrated NaCl environmentâ€"a new substrate for surface enhanced IR-visible Raman spectroscopy. CrystEngComm, 2011, 13, 2242.	1.3	27
25	An in situ porous cuprous oxide/nitrogen-rich graphitic carbon nanocomposite derived from a metal–organic framework for visible light driven hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 18037-18042.	5.2	27
26	Nano-Desorption Electrospray and Kinetic Method in Chiral Analysis of Drugs in Whole Human Blood Samples. European Journal of Mass Spectrometry, 2008, 14, 411-417.	0.5	25
27	Pd@Pt Core–Shell Nanoparticles with Branched Dandelionâ€like Morphology as Highly Efficient Catalysts for Olefin Reduction. Chemistry - A European Journal, 2016, 22, 1577-1581.	1.7	24
28	Determination of Some Phenolic Acids in Majorana hortensis by Capillary Electrophoresis with Online Electrokinetic Preconcentration. Journal of Agricultural and Food Chemistry, 2008, 56, 3940-3944.	2.4	23
29	Discrimination of circulating tumor cells of breast cancer and colorectal cancer from normal human mononuclear cells using Raman spectroscopy. Analyst, The, 2013, 138, 5983.	1.7	23
30	Preparation, characterization and antimicrobial efficiency of Ag/PDDA-diatomite nanocomposite. Colloids and Surfaces B: Biointerfaces, 2013, 110, 191-198.	2.5	23
31	Onâ€line preconcentration of perfluorooctanoic acid and perfluorooctanesulfonic acid by nonaqueous capillary electrophoresis. Electrophoresis, 2012, 33, 2159-2166.	1.3	22
32	Study of phenolic profile and antioxidant activity in selected Moravian wines during winemaking process by FT-IR spectroscopy. Journal of Food Science and Technology, 2015, 52, 6405-6414.	1.4	22
33	Chiral analysis by mass spectrometry using the kinetic method in flow systems. Journal of Mass Spectrometry, 2006, 41, 499-506.	0.7	21
34	Electrochemical oxidation of berberine and mass spectrometric identification of its oxidation products. Bioelectrochemistry, 2012, 87, 15-20.	2.4	20
35	Influence of various chloride ion concentrations on silver nanoparticle transformations and effectiveness in surface enhanced Raman scattering for different excitation wavelengths. RSC Advances, 2015, 5, 9737-9744.	1.7	20
36	Polymer-Based Graphene Derivatives and Microwave-Assisted Silver Nanoparticles Decoration as a Potential Antibacterial Agent. Nanomaterials, 2020, 10, 2269.	1.9	20

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37	New Limits for Stability of Supercapacitor Electrode Material Based on Graphene Derivative. Nanomaterials, 2020, 10, 1731.	1.9	20
38	Two-dimensional MOF-based liquid marbles: surface energy calculations and efficient oil–water separation using a ZIF-9-III@PVDF membrane. Journal of Materials Chemistry A, 2021, 9, 23651-23659.	5.2	20
39	Label-free determination of prostate specific membrane antigen in human whole blood at nanomolar levels by magnetically assisted surface enhanced Raman spectroscopy. Analytica Chimica Acta, 2018, 997, 44-51.	2.6	18
40	Detection of Prosthetic Joint Infection Based on Magnetically Assisted Surface Enhanced Raman Spectroscopy. Analytical Chemistry, 2017, 89, 6598-6607.	3.2	17
41	Colloidal Surface Active Maghemite Nanoparticles for Biologically Safe Cr ^{VI} Remediation: from Coreâ€Shell Nanostructures to Pilot Plant Development. Chemistry - A European Journal, 2016, 22, 14219-14226.	1.7	16
42	Nonenzymatic Oligomerization of 3′,5′ yclic CMP Induced by Proton and UV Irradiation Hints at a Nonfastidious Origin of RNA. ChemBioChem, 2017, 18, 1535-1543.	1.3	16
43	Thermally reduced fluorographenes as efficient electrode materials for supercapacitors. Nanoscale, 2019, 11, 21364-21375.	2.8	15
44	Formic Acid, a Ubiquitous but Overlooked Component of the Early Earth Atmosphere. Chemistry - A European Journal, 2020, 26, 12075-12080.	1.7	15
45	Assessment of CE for the identification of microorganisms. Electrophoresis, 2009, 30, 444-449.	1.3	14
46	Analysis of buserelin in urine by online combination of capillary zone electrophoresis with electrospray mass spectrometry. Electrophoresis, 2010, 31, 1234-1240.	1.3	14
47	Determination of rosiglitazone and metformin in human serum by CEâ€ESIâ€MS. Journal of Separation Science, 2011, 34, 1167-1173.	1.3	14
48	Carboxymethylcellulose-based magnetic Au or Ag nanosystems: Eminent candidates in catalysis, sensing applications based on SERS, and electrochemistry. Applied Materials Today, 2019, 14, 143-150.	2.3	13
49	Broad characterization of endogenous peptides in the tree shrew visual system. Journal of Proteomics, 2012, 75, 2526-2535.	1.2	12
50	Preparative isotachophoresis with surface enhanced Raman scattering as a promising tool for clinical samples analysis. Journal of Chromatography A, 2011, 1218, 205-210.	1.8	11
51	Graphene Oxide Nanoplatforms to Enhance Cisplatin-Based Drug Delivery in Anticancer Therapy. Nanomaterials, 2022, 12, 2372.	1.9	11
52	Multiplex competitive analysis of HER2 and EpCAM cancer markers in whole human blood using Fe2O3@Ag nanocomposite. Applied Materials Today, 2018, 13, 166-173.	2.3	10
53	Altered neurochemical levels in the rat brain following chronic nicotine treatment. Journal of Chemical Neuroanatomy, 2014, 59-60, 29-35.	1.0	9
54	Imaging of growth factors on a human tooth root canal by surface-enhanced Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2018, 410, 7113-7120.	1.9	9

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55	High frequency acoustic emission monitoring in nano-impact of alumina and partially stabilised zirconia. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139159.	2.6	8
56	Asymmetric Supercapacitors: Covalent Grapheneâ€MOF Hybrids for Highâ€Performance Asymmetric Supercapacitors (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170028.	11.1	8
57	Ultrafine TiO ₂ Nanoparticle Supported Nitrogenâ€Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassiumâ€Ion Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100042.	2.8	8
58	Quantification of purine basis in their mixtures at femtoâ€molar concentration levels using FTâ€SERS. Journal of Raman Spectroscopy, 2012, 43, 971-976.	1.2	7
59	Preparation of silver particles and its application for surface enhanced Raman scattering with near-infrared excitation. Materials Research Bulletin, 2014, 50, 63-67.	2.7	6
60	Discrimination of Cheese Products for Authenticity Control by Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2012, 60, 1845-1849.	2.4	5
61	Secondary processes in atmospheric pressure chemical ionization–ion trap mass spectrometry: a case study of orotic acid. Journal of Mass Spectrometry, 2012, 47, 720-726.	0.7	4
62	Nanoindentation-Induced Phase Transformation in Silicon Thin Films. Key Engineering Materials, 0, 586, 112-115.	0.4	4
63	Chiral discrimination of amino acids using phosphorene assisted graphene-enhanced Raman spectroscopy. Analytica Chimica Acta, 2020, 1129, 69-75.	2.6	4
64	Magnesium interference and different efficiencies of diastereoisomeric cluster formation in phenylalanine enantiomeric discrimination by the kinetic method. International Journal of Mass Spectrometry, 2009, 280, 213-217.	0.7	3
65	A fast determination of yohimbine in pharmaceuticals by micellar electrokinetic chromatography. Open Chemistry, 2010, 8, 273-277.	1.0	3
66	Base-free Transfer Hydrogenation of Nitroarenes Catalyzed by Micro-mesoporous Iron Oxide. ChemCatChem, 2016, 8, 2298-2298.	1.8	3
67	Perspectives of DCDR-GERS in the analysis of amino acids. Analyst, The, 2020, 145, 7701-7708.	1.7	3
68	Nanoelectrospray versus electrospray in chiral analysis by the kinetic method. Collection of Czechoslovak Chemical Communications, 2009, 74, 313-322.	1.0	3
69	2D Metal-Organic Frameworks: Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution (Adv. Sci. 11/2018). Advanced Science, 2018, 5, 1870072.	5.6	1
70	Electrocatalysis: Nanoporous Nitrogenâ€Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metalâ€Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution (Adv. Funct. Mater. 33/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
71	How to Preserve Documents: A Short Meditation on Three Themes. Challenges, 2011, 2, 37-42.	0.9	0
72	Label-free determination and multiplex analysis of DNA and RNA in tumor tissues. Applied Materials Today, 2018, 12, 85-91.	2.3	0