

# Aristides Docoslis

## List of Publications by Year in descending order

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36  
papers

746  
citations

471509

17  
h-index

552781

26  
g-index

36  
all docs

36  
docs citations

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times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid identification and quantification of illicit drugs on nanodendritic surface-enhanced Raman scattering substrates. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 382-388.	7.8	77
2	Characterization of the distribution, polymorphism, and stability of nimodipine in its solid dispersions in polyethylene glycol by micro-Raman spectroscopy and powder x-ray diffraction. <i>AAPS Journal</i> , 2007, 9, E361-E370.	4.4	76
3	Hyperhydrophobicity of the Water–Air Interface. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 585-590.	2.4	48
4	In situ assembly of active surface-enhanced Raman scattering substrates via electric field-guided growth of dendritic nanoparticle structures. <i>Nanoscale</i> , 2017, 9, 7847-7857.	5.6	38
5	Using Nonuniform Electric Fields To Accelerate the Transport of Viruses to Surfaces from Media of Physiological Ionic Strength. <i>Langmuir</i> , 2007, 23, 3840-3848.	3.5	37
6	Direct Detection of Toxic Contaminants in Minimally Processed Food Products Using Dendritic Surface-Enhanced Raman Scattering Substrates. <i>Sensors</i> , 2018, 18, 2726.	3.8	35
7	Non-covalent/non-specific functionalization of multi-walled carbon nanotubes with a hyperbranched polyethylene and characterization of their dispersion in a polyolefin matrix. <i>Carbon</i> , 2011, 49, 3378-3382.	10.3	34
8	The role of non-covalent interactions and matrix viscosity on the dispersion and properties of LLDPE/MWCNT nanocomposites. <i>Polymer</i> , 2013, 54, 5230-5240.	3.8	34
9	Portable identification of fentanyl analogues in drugs using surface-enhanced Raman scattering. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129303.	7.8	29
10	Characterization of non-covalently, non-specifically functionalized multi-wall carbon nanotubes and their melt compounded composites with an ethylene–octene copolymer. <i>Composites Science and Technology</i> , 2012, 73, 27-33.	7.8	27
11	Recent Advances in the Use of Surface-Enhanced Raman Scattering for Illicit Drug Detection. <i>Sensors</i> , 2022, 22, 3877.	3.8	25
12	Developing an integrated microfluidic and miniaturized electrochemical biosensor for point of care determination of glucose in human plasma samples. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1441-1452.	3.7	24
13	SERS-from-scratch: An electric field-guided nanoparticle assembly method for cleanroom-free and low-cost preparation of surface-enhanced Raman scattering substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 553, 695-702.	4.7	23
14	Fast and sensitive detection of bacteria from a water droplet by means of electric field effects and micro-Raman spectroscopy. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 59-66.	4.2	22
15	Improving the Surface-Enhanced Raman Scattering Performance of Silver Nanodendritic Substrates with Sprayed-On Graphene-Based Coatings. <i>Sensors</i> , 2018, 18, 3404.	3.8	19
16	Graphene Oxide Membranes for Isotopic Water Mixture Filtration: Preparation, Physicochemical Characterization, and Performance Assessment. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34736-34745.	8.0	18
17	Tunable Fractal Nanostructures for Surface-Enhanced Raman Scattering via Templated Electrodeposition of Silver on Low-Energy Surfaces. <i>ACS Applied Nano Materials</i> , 2020, 3, 2665-2679.	5.0	17
18	Detection and quantification of toxicants in food and water using Ag–Au core-shell fractal SERS nanostructures and multivariate analysis. <i>Talanta</i> , 2021, 231, 122383.	5.5	17

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19	Portable surface-enhanced Raman scattering analysis performed with microelectrode-templated silver nanodendrites. <i>Analyst</i> , 2020, 145, 4467-4476.	3.5	15
20	Electrically conducting polyolefin composites containing electric field-aligned multiwall carbon nanotube structures: The effects of process parameters and filler loading. <i>Carbon</i> , 2014, 72, 89-99.	10.3	14
21	Numerical investigation of AC electrokinetic virus trapping inside high ionic strength media. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 547-560.	2.2	12
22	Optimized inkjet-printed silver nanoparticle films: theoretical and experimental investigations. <i>RSC Advances</i> , 2018, 8, 19679-19689.	3.6	11
23	Achieving high yield of graphene nanoplatelets in poloxamer-assisted ultrasonication of graphite in water. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 107-117.	9.4	11
24	Electrokinetically-Driven Assembly of Gold Colloids into Nanostructures for Surface-Enhanced Raman Scattering. <i>Nanomaterials</i> , 2020, 10, 661.	4.1	11
25	Cicada Wing Inspired Template-Stripped SERS Active 3D Metallic Nanostructures for the Detection of Toxic Substances. <i>Sensors</i> , 2021, 21, 1699.	3.8	11
26	Accelerated Detection of Viral Particles by Combining AC Electric Field Effects and Micro-Raman Spectroscopy. <i>Sensors</i> , 2015, 15, 1047-1059.	3.8	9
27	Noncovalent compatibilization of polypropylene/MWCNT composites using an amino-pyridine grafted polypropylene matrix. <i>Polymer Composites</i> , 2016, 37, 2794-2802.	4.6	9
28	Screen-printed anion-exchange solid-phase extraction: A new strategy for point-of-care determination of angiotensin receptor blockers. <i>Talanta</i> , 2021, 222, 121518.	5.5	9
29	The effect of electric field parameters on the resistivity and induced percolation time of carbon black-filled polystyrene composites. <i>Polymer Composites</i> , 2011, 32, 1106-1114.	4.6	7
30	Observations and analysis of electrokinetically driven particle trapping in planar microelectrode arrays. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 609-621.	1.7	6
31	New insights into the structure and chemical reduction of graphene oxide membranes for use in isotopic water separations. <i>Journal of Membrane Science</i> , 2022, 659, 120785.	8.2	6
32	Ultrasensitive Analyte Detection by Combining Nanoparticle-based Surface-Enhanced Raman Scattering (SERS) Substrates with Multivariate Analysis. <i>Materials Today: Proceedings</i> , 2018, 5, 27377-27386.	1.8	5
33	Electric-field induced filler association dynamics and resulting improvements in the electrical conductivity of polyester/multiwall carbon nanotube composites. <i>Polymer Composites</i> , 2017, 38, 1571-1578.	4.6	4
34	Electrified Polyolefin/Multiwall Carbon Nanotube Composites Exhibit Dramatic Changes in Electrical Conductivity, Permittivity, and Filler Structure. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 448-457.	3.6	3
35	Contact-Free Templating of 3-D Colloidal Structures Using Spatially Nonuniform AC Electric Fields. <i>Langmuir</i> , 2016, 32, 9619-9632.	3.5	3
36	Electrochemically deposited silver nanostructures for use as surface-enhanced Raman scattering (SERS) substrates in point-of-care diagnostic devices. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2428-2440.	1.7	0