

Pol Van Dorpe

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7620861/pol-van-dorpe-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

133
papers

7,762
citations

47
h-index

86
g-index

175
ext. papers

8,631
ext. citations

7.5
avg, IF

5.78
L-index

#	Paper	IF	Citations
133	Symmetry breaking in plasmonic nanocavities: subradiant LSPR sensing and a tunable Fano resonance. <i>Nano Letters</i> , 2008 , 8, 3983-8	11.5	847
132	Fano resonances in individual coherent plasmonic nanocavities. <i>Nano Letters</i> , 2009 , 9, 1663-7	11.5	594
131	Tunability of subradiant dipolar and fano-type plasmon resonances in metallic ring/disk cavities: implications for nanoscale optical sensing. <i>ACS Nano</i> , 2009 , 3, 643-52	16.7	416
130	Plasmonic nanoclusters: near field properties of the Fano resonance interrogated with SERS. <i>Nano Letters</i> , 2012 , 12, 1660-7	11.5	392
129	Plasmon line shaping using nanocrosses for high sensitivity localized surface plasmon resonance sensing. <i>Nano Letters</i> , 2011 , 11, 391-7	11.5	370
128	Experimental realization of subradiant, superradiant, and fano resonances in ring/disk plasmonic nanocavities. <i>ACS Nano</i> , 2010 , 4, 1664-70	16.7	344
127	Electrical detection of confined gap plasmons in metal-insulator-metal waveguides. <i>Nature Photonics</i> , 2009 , 3, 283-286	33.9	296
126	Low-Loss Singlemode PECVD Silicon Nitride Photonic Wire Waveguides for 532-600 nm Wavelength Window Fabricated Within a CMOS Pilot Line. <i>IEEE Photonics Journal</i> , 2013 , 5, 2202809-2202809	1.8	150
125	Boosting the figure-of-merit of LSPR-based refractive index sensing by phase-sensitive measurements. <i>Nano Letters</i> , 2012 , 12, 1655-9	11.5	135
124	Enhanced optical trapping and arrangement of nano-objects in a plasmonic nanocavity. <i>Nano Letters</i> , 2012 , 12, 125-32	11.5	134
123	Asymmetric optical second-harmonic generation from chiral G-shaped gold nanostructures. <i>Physical Review Letters</i> , 2010 , 104, 127401	7.4	132
122	Nanoscale origami for 3D optics. <i>Small</i> , 2011 , 7, 1943-8	11	121
121	Unidirectional side scattering of light by a single-element nanoantenna. <i>Nano Letters</i> , 2013 , 13, 3843-9	11.5	117
120	Optical investigation of electrical spin injection into semiconductors. <i>Physical Review B</i> , 2003 , 68,	3.3	117
119	Very high spin polarization in GaAs by injection from a (Ga,Mn)As Zener diode. <i>Applied Physics Letters</i> , 2004 , 84, 3495-3497	3.4	115
118	Silicon and silicon nitride photonic circuits for spectroscopic sensing on-a-chip [Invited]. <i>Photonics Research</i> , 2015 , 3, B47	6	113
117	Loss mitigation in plasmonic solar cells: aluminium nanoparticles for broadband photocurrent enhancements in GaAs photodiodes. <i>Scientific Reports</i> , 2013 , 3, 2874	4.9	103

116	Fluorescence near gold nanoparticles for DNA sensing. <i>Analytical Chemistry</i> , 2011 , 83, 1307-14	7.8	99
115	Excitation wavelength dependent surface enhanced Raman scattering of 4-aminothiophenol on gold nanorings. <i>Nanoscale</i> , 2012 , 4, 1606-11	7.7	97
114	Live-cell SERS endoscopy using plasmonic nanowire waveguides. <i>Advanced Materials</i> , 2014 , 26, 5124-8	24	93
113	Ultralocal modification of surface plasmons properties in silver nanocubes. <i>Nano Letters</i> , 2012 , 12, 1288-945	14.5	92
112	High spatial resolution nanoslit SERS for single-molecule nucleobase sensing. <i>Nature Communications</i> , 2018 , 9, 1733	17.4	88
111	Fabrication, characterization, and optical properties of gold nanobowl submonolayer structures. <i>Langmuir</i> , 2009 , 25, 1822-7	4	83
110	All-Dielectric Antenna Wavelength Router with Bidirectional Scattering of Visible Light. <i>Nano Letters</i> , 2016 , 16, 4396-403	11.5	76
109	Tuning plasmonic interaction between gold nanorings and a gold film for surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2010 , 97, 163106	3.4	72
108	Plasmon filters and resonators in metal-insulator-metal waveguides. <i>Optics Express</i> , 2012 , 20, 3408-23	3.3	71
107	Fabrication and Optical Properties of Gold Semishells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3110-3115	3.15	71
106	Revisiting the Surface Sensitivity of Nanoplasmonic Biosensors. <i>ACS Photonics</i> , 2015 , 2, 425-431	6.3	70
105	Surface Enhanced Raman Spectroscopy Using a Single Mode Nanophotonic-Plasmonic Platform. <i>ACS Photonics</i> , 2016 , 3, 102-108	6.3	70
104	Plasmonic Efficiency Enhancement of High Performance Organic Solar Cells with a Nanostructured Rear Electrode. <i>Advanced Energy Materials</i> , 2013 , 3, 145-150	21.8	70
103	Plasmon transmutation: inducing new modes in nanoclusters by adding dielectric nanoparticles. <i>Nano Letters</i> , 2012 , 12, 5020-6	11.5	68
102	Symmetry breaking induced optical properties of gold open shell nanostructures. <i>Optics Express</i> , 2009 , 17, 23765-71	3.3	65
101	Mapping magnetic near-field distributions of plasmonic nanoantennas. <i>ACS Nano</i> , 2013 , 7, 3168-76	16.7	64
100	Directional fluorescence emission by individual V-antennas explained by mode expansion. <i>ACS Nano</i> , 2014 , 8, 8232-41	16.7	63
99	Observation of plasmonic dipolar anti-bonding mode in silver nanoring structures. <i>Nanotechnology</i> , 2009 , 20, 465203	3.4	62

98	Mode parity-controlled Fano- and Lorentz-like line shapes arising in plasmonic nanorods. <i>Nano Letters</i> , 2014 , 14, 2322-9	11.5	60
97	Plasmonic modes of metallic semishells in a polymer film. <i>ACS Nano</i> , 2010 , 4, 1457-64	16.7	59
96	Tuning the Fano Resonance Between Localized and Propagating Surface Plasmon Resonances for Refractive Index Sensing Applications. <i>Plasmonics</i> , 2013 , 8, 1379-1385	2.4	58
95	300 mm Wafer-level, ultra-dense arrays of Au-capped nanopillars with sub-10 nm gaps as reliable SERS substrates. <i>Nanoscale</i> , 2014 , 6, 12391-6	7.7	56
94	Semishells: versatile plasmonic nanoparticles. <i>ACS Nano</i> , 2011 , 5, 6774-8	16.7	54
93	Improvement of Figure of Merit for Gold Nanobar Array Plasmonic Sensors. <i>Plasmonics</i> , 2011 , 6, 665-671	2.4	54
92	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015 , 6, 6287	17.4	53
91	Dark and bright localized surface plasmons in nanocrosses. <i>Optics Express</i> , 2011 , 19, 11034-51	3.3	52
90	Capturing wetting states in nanopatterned silicon. <i>ACS Nano</i> , 2014 , 8, 885-93	16.7	51
89	Enhancing Magnetic Dipole Emission by a Nano-Doughnut-Shaped Silicon Disk. <i>ACS Photonics</i> , 2017 , 4, 1893-1898	6.3	51
88	Direct evidence of high spatial localization of hot spots in surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9932-5	16.4	50
87	Electrical excitation of confined surface plasmon polaritons in metallic slot waveguides. <i>Nano Letters</i> , 2010 , 10, 1429-32	11.5	48
86	Bright and dark plasmon resonances of nanoplasmonic antennas evanescently coupled with a silicon nitride waveguide. <i>Optics Express</i> , 2015 , 23, 3088-101	3.3	46
85	Two-Photon Microscopy with a Double-Wavelength Metasurface Objective Lens. <i>Nano Letters</i> , 2018 , 18, 4943-4948	11.5	46
84	Biosensing Using Diffractively Coupled Plasmonic Crystals: the Figure of Merit Revisited. <i>Advanced Optical Materials</i> , 2015 , 3, 176-181	8.1	44
83	Electrically Driven Unidirectional Optical Nanoantennas. <i>Nano Letters</i> , 2017 , 17, 7433-7439	11.5	40
82	Oblique Hanle measurements of InAsGaAs quantum dot spin-light emitting diodes. <i>Applied Physics Letters</i> , 2006 , 88, 022113	3.4	38
81	Highly Efficient Room Temperature Spin Injection in a Metal-Insulator-Semiconductor Light-Emitting Diode. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L502-L504	1.4	36

80	Photoresistance switching of plasmonic nanopores. <i>Nano Letters</i> , 2015 , 15, 776-82	11.5	35
79	Strong location dependent surface enhanced Raman scattering on individual gold semishell and nanobowl particles. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11222-4	3.6	35
78	Focusing plasmons in nanoslits for surface-enhanced Raman scattering. <i>Small</i> , 2009 , 5, 2876-82	11	34
77	Voltage-controlled spin injection in a (Ga,Mn)As/(Al,Ga)As Zener diode. <i>Physical Review B</i> , 2005 , 72,	3.3	33
76	Single Asymmetric Plasmonic Antenna as a Directional Coupler to a Dielectric Waveguide. <i>ACS Photonics</i> , 2017 , 4, 1398-1402	6.3	31
75	Plasmonic behaviors of gold dimers perturbed by a single nanoparticle in the gap. <i>Nanoscale</i> , 2012 , 4, 7205-11	7.7	31
74	The fabrication and optical property of silver nanoplates with different thicknesses. <i>Nanotechnology</i> , 2008 , 19, 325702	3.4	31
73	Engineering and Modeling the Electrophoretic Trapping of a Single Protein Inside a Nanopore. <i>ACS Nano</i> , 2019 , 13, 9980-9992	16.7	30
72	Local electrical detection of single nanoparticle plasmon resonance. <i>Nano Letters</i> , 2007 , 7, 703-6	11.5	30
71	Electro-Osmotic Vortices Promote the Capture of Folded Proteins by PlyAB Nanopores. <i>Nano Letters</i> , 2020 , 20, 3819-3827	11.5	27
70	Self-assembled hexagonal double fishnets as negative index materials. <i>Applied Physics Letters</i> , 2011 , 98, 091101	3.4	27
69	Development of nanostars as a biocompatible tumor contrast agent: toward in vivo SERS imaging. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3703-14	7.3	27
68	Nanoplasmonic Sensors with Various Photonic Coupling Effects for Detecting Different Targets. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 29116-29122	3.8	26
67	Engineering electric and magnetic dipole coupling in arrays of dielectric nanoparticles. <i>Journal of Applied Physics</i> , 2018 , 123, 083101	2.5	25
66	Tuning the interaction between propagating and localized surface plasmons for surface enhanced Raman scattering in water for biomedical and environmental applications. <i>Applied Physics Letters</i> , 2014 , 104, 243102	3.4	25
65	Two-Photon Luminescence of Gold Nanorods Mediated by Higher Order Plasmon Modes. <i>ACS Photonics</i> , 2015 , 2, 410-416	6.3	23
64	Front side plasmonic effect on thin silicon epitaxial solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 104, 58-63	6.4	23
63	Raman fingerprinting of single dielectric nanoparticles in plasmonic nanopores. <i>Nanoscale</i> , 2015 , 7, 18617-8	7.8	20

62	Spectral interferometric microscopy reveals absorption by individual optical nanoantennas from extinction phase. <i>Nature Communications</i> , 2014 , 5, 3748	17.4	20
61	Harnessing plasmon-induced ionic noise in metallic nanopores. <i>Nano Letters</i> , 2013 , 13, 1724-9	11.5	20
60	Nuclear spin orientation by electrical spin injection in an Al _x Ga _{1-x} As/GaAs spin-polarized light-emitting diode. <i>Physical Review B</i> , 2005 , 72,	3.3	20
59	Spin injection in LEDs and in unipolar devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 155-163	3.1	19
58	. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-11	1.8	18
57	Waveguide excitation and collection of surface-enhanced Raman scattering from a single plasmonic antenna. <i>Nanophotonics</i> , 2018 , 7, 1299-1306	6.3	18
56	Near-Field Interactions between Metal Nanoparticle Surface Plasmons and Molecular Excitons in Thin-Films. Part I: Absorption. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24206-24214	3.8	17
55	Broadband absorption enhancement in ultra-thin crystalline Si solar cells by incorporating metallic and dielectric nanostructures in the back reflector. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1144-1156	6.8	16
54	On the Use of Group Theory in Understanding the Optical Response of a Nanoantenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 1589-1602	4.9	16
53	Efficient electrical spin injection in GaAs: A comparison between AlO _x and Schottky injectors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 1862-1867	2.9	16
52	Spin-injection in semiconductors: materials challenges and device aspects. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 1470-1476	1.3	16
51	Biosensing with SiO ₂ -covered SPR substrates in a commercial SPR-tool. <i>Sensors and Actuators B: Chemical</i> , 2014 , 200, 167-172	8.5	15
50	Accurate modeling of a biological nanopore with an extended continuum framework. <i>Nanoscale</i> , 2020 , 12, 16775-16795	7.7	15
49	Label-free genosensor based on immobilized DNA hairpins on gold surface. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3121-6	11.8	14
48	Excitation of multiple dipole surface plasmon resonances in spherical silver nanoparticles. <i>Optics Express</i> , 2010 , 18, 19032-8	3.3	14
47	Spin Injection and Detection in Semiconductors Electrical Issues and Device Aspects. <i>IEEE Transactions on Electron Devices</i> , 2007 , 54, 933-944	2.9	13
46	Near-Field Mapping of Optical Fabry-Perot Modes in All-Dielectric Nanoantennas. <i>Nano Letters</i> , 2017 , 17, 7629-7637	11.5	12
45	Lateral magnetic near-field imaging of plasmonic nanoantennas with increasing complexity. <i>Small</i> , 2014 , 10, 1959-66	11	12

44	Groove-gratings to optimize the electric field enhancement in a plasmonic nanoslit-cavity. <i>Journal of Applied Physics</i> , 2010 , 108, 034319	2.5	12
43	Detection of DNA Bases and Oligonucleotides in Plasmonic Nanoslits Using Fluidic SERS. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4600707-4600707	3.8	11
42	Suppression of Bulk Fluorescence Noise by Combining Waveguide-Based Near-Field Excitation and Collection. <i>ACS Photonics</i> , 2017 , 4, 495-500	6.3	10
41	Full wetting of plasmonic nanopores through two-component droplets. <i>Chemical Science</i> , 2015 , 6, 6564-6571	9.1	10
40	A versatile method to fabricate particle-in-cavity plasmonic nanostructures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14394		10
39	Direct Fabrication of Monodisperse Silica Nanorings from Hollow Spheres - A Template for Core-Shell Nanorings. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10451-8	9.5	10
38	Probing Local Potentials inside Metallic Nanopores with SERS and Bipolar Electrochemistry. <i>Advanced Optical Materials</i> , 2017 , 5, 1600907	8.1	9
37	Integrated Nanophotonic Excitation and Detection of Fluorescent Microparticles. <i>ACS Photonics</i> , 2017 , 4, 1937-1944	6.3	9
36	Near-Field Interactions between Metal Nanoparticle Surface Plasmons and Molecular Excitons in Thin-Films. Part II: Emission. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24215-24223	3.8	9
35	Highly confined surface plasmon polariton resonances in rectangular nanopore cavities. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 247-249	2.5	9
34	Wafer Scale Processing of Plasmonic Nanoslit Arrays in 200mm CMOS Fab Environment. <i>ECS Transactions</i> , 2013 , 50, 413-422	1	8
33	Raman scattered photon transmission through a single nanoslit. <i>Applied Physics Letters</i> , 2010 , 96, 061108	3.4	8
32	Asymmetric plasmonic induced ionic noise in metallic nanopores. <i>Nanoscale</i> , 2016 , 8, 12324-9	7.7	7
31	Design of the tunnel contacts and the transport region of all-electrical spin-injection-detection devices. <i>Journal of Applied Physics</i> , 2006 , 99, 08S702	2.5	7
30	Nanoparticle Scattering for Multijunction Solar Cells: The Tradeoff Between Absorption Enhancement and Transmission Loss. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1678-1687	3.7	6
29	Implementation of the Natural Mode Analysis for Nanotopologies Using a Volumetric Method of Moments (V-MoM) Algorithm. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-13	1.8	5
28	Spin dependent transport properties in spin-LEDs: a survey 2005 ,		5
27	Robustness of surface-enhanced Raman scattering substrate with a mercaptosilane adhesive layer for in vivo sensing applications. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 067002	1.4	4

26	Supercritical Angle Fluorescence Characterization Using Spatially Resolved Fourier Plane Spectroscopy. <i>Analytical Chemistry</i> , 2018 , 90, 4263-4267	7.8	4
25	Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length. <i>Applied Physics Letters</i> , 2009 , 95, 253109	3.4	4
24	Mitigation of UV-Induced Propagation Loss in PECVD Silicon Nitride Photonic Waveguides. <i>ACS Photonics</i> , 2018 , 5, 2145-2150	6.3	3
23	Development of a CMOS Compatible Biophotonics Platform Based on SiN Nanophotonic Waveguides 2014 ,		3
22	Design of an all-electrical spin-injection-detection device in GaAs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 4172-4175		3
21	Electrical Spin Injection in a Ferromagnetic Metal/Insulator/Semiconductor Tunnel Heterostructure. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003 , 16, 671-678		3
20	Wet etching of TiN in 1-D and 2-D confined nano-spaces of FinFET transistors. <i>Microelectronic Engineering</i> , 2018 , 200, 56-61	2.5	3
19	Spectroscopic sensing with silicon nitride photonic integrated circuits 2017 ,		2
18	Direct on-chip DNA synthesis using electrochemically modified gold electrodes as solid support. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FM01	1.4	2
17	Bias-dependent spin relaxation in a Spin-LED. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 107-111	3.1	2
16	Towards a miniaturized application-specific Raman spectrometer 2020 ,		2
15	Modeling and Optimization of Plasmonic Detectors for Beyond-CMOS Plasmonic Majority Logic Gates. <i>Journal of Lightwave Technology</i> , 2020 , 38, 5092-5099	4	1
14	Plasmonic nanoslit for fluidic SERS: A strategy towards genome sequencing 2013 ,		1
13	Nanoparticle scattering for radiation-hard multi-junction space solar cells 2015 ,		1
12	Characterization of PECVD silicon nitride photonic components at 532 and 900 nm wavelength 2014 ,		1
11	Investigation of the correlation between the bulk and surface sensing performance in plasmonic crystals 2014 ,		1
10	Raman spectroscopy and optical trapping of 20 nm polystyrene particles in plasmonic nanopores 2014 ,		1
9	Nano-Scale Electrical Transducers of Surface Plasmons for Integrated Biosensing 2012 , 369-384		1

8	Boosting the sensitivity of the nanopore field-effect transistor to translocating single molecules. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
7	Modeling of Ion and Water Transport in the Biological Nanopore ClyA		1
6	Revival and Expansion of the Theory of Coherent Lattices. <i>Physical Review Letters</i> , 2020 , 125, 184101	7.4	1
5	Inverse design assisted coherent optical lattices.. <i>Optics Express</i> , 2022 , 30, 11384-11393	3.3	0
4	Probing higher order optical modes in all-dielectric nanodisk, -square, and -triangle by aperture type scanning near-field optical microscopy. <i>Nanophotonics</i> , 2022 , 11, 543-557	6.3	0
3	Plasmonic Nanoantennas: Lateral Magnetic Near-Field Imaging of Plasmonic Nanoantennas With Increasing Complexity (Small 10/2014). <i>Small</i> , 2014 , 10, 1958-1958	11	
2	Optical Properties of Metallic Semishells: Breaking the Symmetry of Plasmonic Nanoshells 2013 , 75-98		
1	Spin LEDs. <i>Series in Materials Science and Engineering</i> , 2006 , 269-288		