

Ester Segal

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2142148/ester-segal-publications-by-year.pdf>

Version: 2024-04-28

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.

109
papers

3,064
citations

31
h-index

52
g-index

115
ext. papers

3,512
ext. citations

6.5
avg, IF

5.57
L-index

#	Paper	IF	Citations
109	Aptasensors versus immunosensors-Which will prevail?. <i>Engineering in Life Sciences</i> , 2022 , 22, 319-333	3.4	3
108	Semiconducting silicon nanowires and nanowire composites for biosensing and therapy 2022 , 363-378		
107	Paving the Way to Overcome Antifungal Drug Resistance: Current Practices and Novel Developments for Rapid and Reliable Antifungal Susceptibility Testing.. <i>Small Methods</i> , 2021 , 5, e2100713	12.8	2
106	Design considerations of aptasensors for continuous monitoring of biomarkers in digestive tract fluids.. <i>Talanta</i> , 2021 , 239, 123124	6.2	
105	Porous Silicon-Based Aptasensors: Toward Cancer Protein Biomarker Detection. <i>ACS Measurement Science Au</i> , 2021 , 1, 82-94		5
104	Antibody-Functionalized Halloysite Nanotubes for Targeting Bacterial Cells. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4094-4104	4.1	3
103	3D-printed microfluidics integrated with optical nanostructured porous aptasensors for protein detection. <i>Mikrochimica Acta</i> , 2021 , 188, 67	5.8	15
102	Morlet Wavelet Filtering and Phase Analysis to Reduce the Limit of Detection for Thin Film Optical Biosensors. <i>ACS Sensors</i> , 2021 , 6, 2967-2978	9.2	6
101	Lab-on-a-Chip Devices for Point-of-Care Medical Diagnostics. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020 , 1	1.7	17
100	Aptamers vs. antibodies as capture probes in optical porous silicon biosensors. <i>Analyst, The</i> , 2020 , 145, 4991-5003	5	32
99	Halloysite nanotubes - the nano-bio interface. <i>Nanoscale</i> , 2020 , 12, 23444-23460	7.7	19
98	Aptasensors for Point-of-Care Detection of Small Molecules. <i>Biosensors</i> , 2020 , 10,	5.9	13
97	Antifungal Susceptibility Testing of on Silicon Microwells by Intensity-Based Reflectometric Interference Spectroscopy. <i>ACS Infectious Diseases</i> , 2020 , 6, 2560-2566	5.5	4
96	Mass Transfer Limitations of Porous Silicon-Based Biosensors for Protein Detection. <i>ACS Sensors</i> , 2020 , 5, 3058-3069	9.2	16
95	Increased surface area of halloysite nanotubes due to surface modification predicts lung inflammation and acute phase response after pulmonary exposure in mice. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 73, 103266	5.8	16
94	Designing Porous Silicon Films as Carriers of Nerve Growth Factor. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	2
93	Characterization of surface phenomena: probing early stage degradation of low-density polyethylene films. <i>Polymer Engineering and Science</i> , 2019 , 59, E129-E137	2.3	10

92	Neuroprotective Effect of Nerve Growth Factor Loaded in Porous Silicon Nanostructures in an Alzheimer's Disease Model and Potential Delivery to the Brain. <i>Small</i> , 2019 , 15, e1904203	11	13
91	Porous Materials: Neuroprotective Effect of Nerve Growth Factor Loaded in Porous Silicon Nanostructures in an Alzheimer's Disease Model and Potential Delivery to the Brain (Small 45/2019). <i>Small</i> , 2019 , 15, 1970245	11	
90	Rapid diagnostic susceptibility testing of bacteria and fungi from clinical samples using silicon gratings 2019 ,		5
89	Bone Morphogenic Protein 2-Loaded Porous Silicon Carriers for Osteoinductive Implants. <i>Pharmaceutics</i> , 2019 , 11,	6.4	9
88	Designing Bacterial Chemotactic Receptors Guided by Photonic Femtoliter Well Arrays for Quantifiable, Label-Free Measurement of Bacterial Chemotaxis. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 603-612	5.5	3
87	Porous Silicon-Based Photonic Biosensors: Current Status and Emerging Applications. <i>Analytical Chemistry</i> , 2019 , 91, 441-467	7.8	89
86	Label-free optical monitoring of proteolytic reaction products using nanoporous silica colloidal assembly. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 796-800	8.5	3
85	Synthesis and characterization of a nanostructured porous silicon/carbon dot-hybrid for orthogonal molecular detection. <i>NPG Asia Materials</i> , 2018 , 10, e463-e463	10.3	18
84	Antimicrobial Carvacrol-Containing Polypropylene Films: Composition, Structure and Function. <i>Polymers</i> , 2018 , 10,	4.5	28
83	Occupational exposure during handling and loading of halloysite nanotubes [A case study of counting nanofibers. <i>NanoImpact</i> , 2018 , 10, 153-160	5.6	22
82	Unraveling bacterial networks and their antimicrobial susceptibility on silicon microarchitectures using intrinsic phase-shift spectroscopy 2018 ,		1
81	Porous Silicon Polymer Composites 2018 , 1-12		
80	Porous Silicon Optical Biosensors 2018 , 1263-1273		
79	Porous Silicon Polymer Composites 2018 , 269-280		2
78	Porous Silicon Bragg Reflector/Carbon Dot Hybrids: Synthesis, Nanostructure, and Optical Properties. <i>Frontiers in Chemistry</i> , 2018 , 6, 574	5	9
77	Antimicrobial LDPE/EVOH Layered Films Containing Carvacrol Fabricated by Multiplication Extrusion. <i>Polymers</i> , 2018 , 10,	4.5	14
76	Recent Advances in the Race to Design a Rapid Diagnostic Test for Antimicrobial Resistance. <i>ACS Sensors</i> , 2018 , 3, 2202-2217	9.2	62
75	Active food packaging films with synergistic antimicrobial activity. <i>Food Control</i> , 2017 , 76, 117-126	6.2	92

74	Rapid and label-free detection of protein a by aptamer-tethered porous silicon nanostructures. <i>Journal of Biotechnology</i> , 2017 , 257, 171-177	3.7	39
73	Unraveling Antimicrobial Susceptibility of Bacterial Networks on Micropillar Architectures Using Intrinsic Phase-Shift Spectroscopy. <i>ACS Nano</i> , 2017 , 11, 6167-6177	16.7	38
72	Aptamer-based detection of adenosine triphosphate via qPCR. <i>Talanta</i> , 2017 , 172, 199-205	6.2	11
71	Light-triggered antifouling coatings for porous silicon optical transducers. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 859-866	3.2	2
70	Prolonged controlled delivery of nerve growth factor using porous silicon nanostructures. <i>Journal of Controlled Release</i> , 2017 , 257, 51-59	11.7	27
69	Correlating chemical and physical changes of photo-oxidized low-density polyethylene to the activation energy of water release. <i>Polymer Testing</i> , 2017 , 64, 194-199	4.5	7
68	On Chip Protein Pre-Concentration for Enhancing the Sensitivity of Porous Silicon Biosensors. <i>ACS Sensors</i> , 2017 , 2, 1767-1773	9.2	31
67	Porous Silicon-Polymer Composites 2017 , 1-12		0
66	Online analysis of protein inclusion bodies produced in E. coli by monitoring alterations in scattered and reflected light. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 4147-59	5.7	9
65	Whole-cell detection of live lactobacillus acidophilus on aptamer-decorated porous silicon biosensors. <i>Analyst, The</i> , 2016 , 141, 5432-40	5	55
64	Porous Silicon-Based Biosensors: Towards Real-Time Optical Detection of Target Bacteria in the Food Industry. <i>Scientific Reports</i> , 2016 , 6, 38099	4.9	47
63	Active packaging containing encapsulated carvacrol for control of postharvest decay. <i>Postharvest Biology and Technology</i> , 2016 , 118, 175-182	6.2	38
62	Mechanism of erosion of nanostructured porous silicon drug carriers in neoplastic tissues. <i>Nature Communications</i> , 2015 , 6, 6208	17.4	87
61	Tethered Lipid Bilayers within Porous Si Nanostructures: A Platform for (Optical) Real-Time Monitoring of Membrane-Associated Processes. <i>Langmuir</i> , 2015 , 31, 5244-51	4	14
60	Detection of trace heavy metal ions in water by nanostructured porous Si biosensors. <i>Analyst, The</i> , 2015 , 140, 4507-14	5	34
59	Porous Silicon Biosensors Employing Emerging Capture Probes. <i>Springer Series in Materials Science</i> , 2015 , 93-116	0.9	4
58	Optical biosensors for bacteria detection by a peptidomimetic antimicrobial compound. <i>Analyst, The</i> , 2015 , 140, 7726-33	5	25
57	Antibacterial and antifungal LDPE films for active packaging. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 110-116	3.2	47

56	LDPE/clay/carvacrol nanocomposites with prolonged antimicrobial activity. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	31
55	Optical Biosensors: Oxidized Porous Silicon Nanostructures Enabling Electrokinetic Transport for Enhanced DNA Detection (Adv. Funct. Mater. 43/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 6824-6824	15.6	1
54	Oxidized Porous Silicon Nanostructures Enabling Electrokinetic Transport for Enhanced DNA Detection. <i>Advanced Functional Materials</i> , 2015 , 25, 6725-6732	15.6	46
53	Porous silicon for cancer therapy: from fundamental research to the clinic. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	13
52	Combination of CuO nanoparticles and fluconazole: preparation, characterization, and antifungal activity against <i>Candida albicans</i> . <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	31
51	Label-free optical biosensors based on aptamer-functionalized porous silicon scaffolds. <i>Analytical Chemistry</i> , 2015 , 87, 1999-2006	7.8	75
50	Biocatalytic carbon nanotube paper: a one-pot route for fabrication of enzyme-immobilized membranes for organophosphate bioremediation. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 915-922	7.3	27
49	Polymer: Porous Silicon Composites 2014 , 1-10		
48	Porous Silicon Optical Biosensors 2014 , 1-11		1
47	Trap and track: designing self-reporting porous Si photonic crystals for rapid bacteria detection. <i>Analyst, The</i> , 2014 , 139, 3885-94	5	32
46	Nanostructured porous Si optical biosensors: effect of thermal oxidation on their performance and properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16049-55	9.5	28
45	Polymer - Porous Silicon Composites 2014 , 187-198		2
44	Porous Silicon Optical Biosensors 2014 , 857-868		8
43	Polymer : Porous Silicon Composites 2014 , 1-11		
42	Engineering porous silicon nanostructures as tunable carriers for mitoxantrone dihydrochloride. <i>Acta Biomaterialia</i> , 2013 , 9, 6208-17	10.8	42
41	Dual-functionalized porous Si/hydrogel hybrid for label-free biosensing of organophosphorus compounds. <i>Analytical Chemistry</i> , 2013 , 85, 7353-60	7.8	29
40	Optical biosensing of bacteria and cells using porous silicon based, photonic lamellar gratings. <i>Applied Physics Letters</i> , 2013 , 103, 033702	3.4	26
39	Mathematical modeling of drug release from nanostructured porous Si: combining carrier erosion and hindered drug diffusion for predicting release kinetics. <i>Acta Biomaterialia</i> , 2013 , 9, 8346-53	10.8	30

38	Picking up the pieces: a generic porous Si biosensor for probing the proteolytic products of enzymes. <i>Analytical Chemistry</i> , 2013 , 85, 1951-6	7.8	35
37	Nanostructured Conducting Polymers for Sensor Development 2013 , 489-521		1
36	Highly-Tunable Polymer/CNTs Nanostructures: A Rapid and Facile Approach for Controlled Architecture and Composition. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1505, 1		
35	Biosensor based on DNA directed immobilization of enzymes onto optically sensitive porous Si. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1569, 195-200		0
34	Designing porous silicon-based microparticles as carriers for controlled delivery of mitoxantrone dihydrochloride. <i>Journal of Materials Research</i> , 2013 , 28, 231-239	2.5	16
33	Bombarding cancer: biolistic delivery of therapeutics using porous Si carriers. <i>Scientific Reports</i> , 2013 , 3, 2499	4.9	25
32	Optical detection of E. coli bacteria by mesoporous silicon biosensors. <i>Journal of Visualized Experiments</i> , 2013 , e50805	1.6	8
31	Hydrogels synthesized in electrochemically machined porous Si hosts: effect of nano-scale confinement on polymer properties. <i>Soft Matter</i> , 2012 , 8, 9166	3.6	19
30	Surface Engineered Porous Silicon-based Nanostructures for Cancer Therapy. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1416, 31		
29	Highly-Tunable Polymer/Carbon Nanotubes Systems: Preserving Dispersion Architecture in Solid Composites via Rapid Microfiltration. <i>ACS Macro Letters</i> , 2012 , 1, 848-852	6.6	23
28	DNA-directed immobilization of horseradish peroxidase onto porous SiO ₂ optical transducers. <i>Nanoscale Research Letters</i> , 2012 , 7, 443	5	25
27	Advancing nanostructured porous si-based optical transducers for label free bacteria detection. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 733, 37-45	3.6	19
26	Structure and properties of multi-walled carbon nanotube porous sheets with enhanced elongation. <i>Journal of Materials Science</i> , 2012 , 47, 6131-6140	4.3	14
25	Functional Nanostructured Porous Si/Hydrogel Hybrids: Synthesis, Characterization and Applications. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1403, 108		
24	Engineering nanostructured porous SiO ₂ surfaces for bacteria detection via "direct cell capture". <i>Analytical Chemistry</i> , 2011 , 83, 3282-9	7.8	101
23	Nanostructured porous silicon-polymer-based hybrids: from biosensing to drug delivery. <i>Nanomedicine</i> , 2011 , 6, 1755-70	5.6	95
22	Compatibility of cancer cells with nanostructured oxidized porous silicon substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1903-1907		5
21	Preparation and characterization of a pH- and thermally responsive poly(N-isopropylacrylamide-co-acrylic acid)/porous SiO ₂ hybrid. <i>Advanced Functional Materials</i> , 2010 , 20, 826-833	15.6	51

20	Construction and Characterization of Porous SiO ₂ /Hydrogel Hybrids as Optical Biosensors for Rapid Detection of Bacteria. <i>Advanced Functional Materials</i> , 2010 , 20, 2269-2277	15.6	100
19	Grafting stimuli-responsive polymer brushes to freshly-etched porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1717-1720		21
18	Oxidation-triggered release of fluorescent molecules or drugs from mesoporous Si microparticles. <i>ACS Nano</i> , 2008 , 2, 2401-9	16.7	141
17	Confinement of Thermoresponsive Hydrogels in Nanostructured Porous Silicon Dioxide Templates. <i>Advanced Functional Materials</i> , 2007 , 17, 1153-1162	15.6	100
16	Porous silicon-based polymer replicas formed by bead patterning. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1383-1387	1.6	19
15	Electrically conductive sensors for liquids based on quaternary ethylene vinyl acetate (EVA)/copolyamide/maleated-EVA/polyaniline blends. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 110-117	2.9	4
14	Local heating of discrete droplets using magnetic porous silicon-based photonic crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7938-46	16.4	53
13	Polystyrene/polyaniline nanoblends for sensing of aliphatic alcohols. <i>Sensors and Actuators B: Chemical</i> , 2005 , 104, 140-150	8.5	57
12	Chemical sensing materials based on electrically-conductive immiscible polymer blends. <i>Polymer International</i> , 2005 , 54, 1065-1075	3.3	23
11	Electrically conductive sensors for liquids based on ternary immiscible polymer blends containing polyaniline. <i>Polymers for Advanced Technologies</i> , 2004 , 15, 573-582	3.2	5
10	Electrically conductive composites based on epoxy resin containing polyaniline/DBSA- and polyaniline/DBSA-coated glass fibers. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1329-1334	2.9	31
9	Sensing of liquids by electrically conductive immiscible polypropylene/thermoplastic polyurethane blends containing carbon black. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 1428-1440	2.6	53
8	Electrically conductive composites based on epoxy resin with polyaniline-DBSA fillers. <i>Synthetic Metals</i> , 2003 , 132, 269-278	3.6	81
7	Polymerization of anilinium/DBSA in the presence of clay particles: kinetics and formation of core-shell structures. <i>Polymers for Advanced Technologies</i> , 2002 , 13, 16-24	3.2	20
6	Thermoplastic polyurethane/carbon black compounds: Structure, electrical conductivity and sensing of liquids. <i>Polymer Engineering and Science</i> , 2002 , 42, 2430-2439	2.3	43
5	Electrical Conductivity of High Impact Polystyrene/Liquid Crystalline Polymer/ Carbon Black Ternary Systems. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 725, 1		1
4	Polyaniline/DBSA/organophilic clay nanocomposites: synthesis and characterization. <i>Synthetic Metals</i> , 2002 , 128, 115-120	3.6	153
3	Polymerization of anilinium/DBSA in the presence of clay particles: Catalysis and encapsulation. <i>Polymer Engineering and Science</i> , 2000 , 40, 1915-1920	2.3	21

2 Polyaniline/DBSA/polymer blends prepared via aqueous dispersions. *Synthetic Metals*, **2000**, 110, 189-193, 3.6 101

1 Polymerization of aniline in the presence of DBSA in an aqueous dispersion. *Synthetic Metals*, **1999**, 106, 59-66, 3.6 129