

Abel Santos

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115
papers

3,274
citations

35
h-index

51
g-index

127
ext. papers

3,794
ext. citations

7
avg, IF

5.68
L-index

#	Paper	IF	Citations
115	Nanoporous anodic aluminum oxide for chemical sensing and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 44, 25-38	14.6	177
114	Titania nanotube arrays for local drug delivery: recent advances and perspectives. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 103-27	8	120
113	Nanoporous anodic alumina platforms: engineered surface chemistry and structure for optical sensing applications. <i>Sensors</i> , 2014 , 14, 11878-918	3.8	104
112	Advanced biopolymer-coated drug-releasing titania nanotubes (TNTs) implants with simultaneously enhanced osteoblast adhesion and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 130, 255-63	6	99
111	Nanoporous anodic alumina barcodes: toward smart optical biosensors. <i>Advanced Materials</i> , 2012 , 24, 1050-4	24	93
110	An overview of nanotoxicity and nanomedicine research: principles, progress and implications for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7153-7172	7.3	89
109	Nanoporous Anodic Alumina: A Versatile Platform for Optical Biosensors. <i>Materials</i> , 2014 , 7, 4297-4320	3.5	89
108	Drug-releasing implants: current progress, challenges and perspectives. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6157-6182	7.3	88
107	Structural and optical nanoengineering of nanoporous anodic alumina rugate filters for real-time and label-free biosensing applications. <i>Analytical Chemistry</i> , 2014 , 86, 1837-44	7.8	79
106	Optimizing Anodization Conditions for the Growth of Titania Nanotubes on Curved Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16033-16045	3.8	70
105	Photoluminescent enzymatic sensor based on nanoporous anodic alumina. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3584-8	9.5	66
104	Nanoporous anodic alumina rugate filters for sensing of ionic mercury: toward environmental point-of-analysis systems. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12971-8	9.5	63
103	Optically optimized photoluminescent and interferometric biosensors based on nanoporous anodic alumina: a comparison. <i>Analytical Chemistry</i> , 2013 , 85, 7904-11	7.8	59
102	Ultrasensitive nanoporous interferometric sensor for label-free detection of gold(III) ions. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11783-90	9.5	59
101	Nanoporous anodic alumina photonic crystals: fundamentals, developments and perspectives. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5581-5599	7.1	58
100	Low-cost fabrication technologies for nanostructures: state-of-the-art and potential. <i>Nanotechnology</i> , 2015 , 26, 042001	3.4	54
99	Biomimetic Nanoporous Anodic Alumina Distributed Bragg Reflectors in the Form of Films and Microsized Particles for Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19816-24	9.5	53

98	Porous silicon for drug delivery applications and theranostics: recent advances, critical review and perspectives. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 1407-1422	8	52
97	Rational Design of Ultra-Short Anodic Alumina Nanotubes by Short-Time Pulse Anodization. <i>Electrochimica Acta</i> , 2015 , 154, 379-386	6.7	52
96	Structurally engineered anodic alumina nanotubes as nano-carriers for delivery of anticancer therapeutics. <i>Biomaterials</i> , 2014 , 35, 5517-26	15.6	52
95	Advanced Structural Engineering of Nanoporous Photonic Structures: Tailoring Nanopore Architecture to Enhance Sensing Properties. <i>ACS Photonics</i> , 2014 , 1, 1298-1306	6.3	50
94	Structural engineering of nanoporous anodic alumina funnels with high aspect ratio. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 655, 73-78	4.1	47
93	Realisation and advanced engineering of true optical rugate filters based on nanoporous anodic alumina by sinusoidal pulse anodisation. <i>Nanoscale</i> , 2016 , 8, 1360-73	7.7	42
92	Interferometric nanoporous anodic alumina photonic coatings for optical sensing. <i>Nanoscale</i> , 2015 , 7, 7770-9	7.7	41
91	Systematic in vitro nanotoxicity study on anodic alumina nanotubes with engineered aspect ratio: understanding nanotoxicity by a nanomaterial model. <i>Biomaterials</i> , 2015 , 46, 117-30	15.6	40
90	Structural tuning of photoluminescence in nanoporous anodic alumina by hard anodization in oxalic and malonic acids. <i>Nanoscale Research Letters</i> , 2012 , 7, 228	5	40
89	On The Generation of Interferometric Colors in High Purity and Technical Grade Aluminum: An Alternative Green Process for Metal Finishing Industry. <i>Electrochimica Acta</i> , 2015 , 174, 672-681	6.7	39
88	In situ monitored engineering of inverted nanoporous anodic alumina funnels: on the precise generation of 3D optical nanostructures. <i>Nanoscale</i> , 2014 , 6, 9991-9	7.7	39
87	On the mechanical properties of nanoporous anodized alumina by nanoindentation and sliding tests. <i>Surface and Coatings Technology</i> , 2012 , 206, 2115-2124	4.4	38
86	Understanding pore rearrangement during mild to hard transition in bilayered porous anodic alumina membranes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1925-32	9.5	38
85	In situ electrochemical dissolution of the oxide barrier layer of porous anodic alumina fabricated by hard anodization. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 632, 139-142	4.1	37
84	Effect of the anodization voltage on the pore-widening rate of nanoporous anodic alumina. <i>Nanoscale Research Letters</i> , 2012 , 7, 474	5	36
83	Real-time and in situ drug release monitoring from nanoporous implants under dynamic flow conditions by reflectometric interference spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5436-42	9.5	36
82	Fabrication and characterization of high-density arrays of P3HT nanopillars on ITO/glass substrates. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1247-1253	6.4	36
81	Nanoporous anodic alumina obtained without protective oxide layer by hard anodization. <i>Materials Letters</i> , 2012 , 67, 296-299	3.3	35

80	Facile synthesis of optical microcavities by a rationally designed anodization approach: tailoring photonic signals by nanopore structure. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9879-88	9.5	34
79	Photoswitchable membranes based on peptide-modified nanoporous anodic alumina: toward smart membranes for on-demand molecular transport. <i>Advanced Materials</i> , 2015 , 27, 3019-24	24	34
78	Nanoporous Alumina. <i>Springer Series in Materials Science</i> , 2015 ,	0.9	33
77	Nanoporous Anodic Alumina Photonic Crystals for Optical Chemo- and Biosensing: Fundamentals, Advances, and Perspectives. <i>Nanomaterials</i> , 2018 , 8,	5.4	33
76	Environmental Copper Sensor Based on Polyethylenimine-Functionalized Nanoporous Anodic Alumina Interferometers. <i>Analytical Chemistry</i> , 2019 , 91, 5011-5020	7.8	32
75	Structural Engineering of Nanoporous Anodic Alumina Photonic Crystals by Sawtooth-like Pulse Anodization. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13542-54	9.5	30
74	Multifunctional microspherical magnetic and pH responsive carriers for combination anticancer therapy engineered by droplet-based microfluidics. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4097-4109	7.3	29
73	Carbon nanotube-nanoporous anodic alumina composite membranes with controllable inner diameters and surface chemistry: Influence on molecular transport and chemical selectivity. <i>Carbon</i> , 2015 , 93, 681-692	10.4	29
72	Luminescent Silicon Diatom Replicas: Self-Reporting and Degradable Drug Carriers with Biologically Derived Shape for Sustained Delivery of Therapeutics. <i>Advanced Functional Materials</i> , 2015 , 25, 5107-5118	15.6	29
71	Cobalt and Nickel Nanopillars on Aluminium Substrates by Direct Current Electrodeposition Process. <i>Nanoscale Research Letters</i> , 2009 , 4, 1021-1028	5	29
70	Iron Oxide Nanowires from Bacteria Biofilm as an Efficient Visible-Light Magnetic Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20110-9	9.5	27
69	Rational Design of Photonic Dust from Nanoporous Anodic Alumina Films: A Versatile Photonic Nanotool for Visual Sensing. <i>Scientific Reports</i> , 2015 , 5, 12893	4.9	27
68	From The Mine to Cancer Therapy: Natural and Biodegradable Theranostic Silicon Nanocarriers from Diatoms for Sustained Delivery of Chemotherapeutics. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2667-2678	10.1	27
67	Fine tuning of optical signals in nanoporous anodic alumina photonic crystals by apodized sinusoidal pulse anodisation. <i>Nanoscale</i> , 2016 , 8, 18360-18375	7.7	26
66	Nanoporous hard data: optical encoding of information within nanoporous anodic alumina photonic crystals. <i>Nanoscale</i> , 2016 , 8, 8091-100	7.7	26
65	Stacked Nanoporous Anodic Alumina Gradient-Index Filters with Tunable Multispectral Photonic Stopbands as Sensing Platforms. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3360-3371	9.5	26
64	On the Precise Tuning of Optical Filtering Features in Nanoporous Anodic Alumina Distributed Bragg Reflectors. <i>Scientific Reports</i> , 2018 , 8, 4642	4.9	25
63	Tunable Fabry-Pérot interferometer based on nanoporous anodic alumina for optical biosensing purposes. <i>Nanoscale Research Letters</i> , 2012 , 7, 370	5	25

62	Engineering of Surface Chemistry for Enhanced Sensitivity in Nanoporous Interferometric Sensing Platforms. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8929-8940	9.5	24
61	Rational engineering of nanoporous anodic alumina optical bandpass filters. <i>Nanoscale</i> , 2016 , 8, 14846-577	7.7	24
60	Bioinert Anodic Alumina Nanotubes for Targeting of Endoplasmic Reticulum Stress and Autophagic Signaling: A Combinatorial Nanotube-Based Drug Delivery System for Enhancing Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27140-51	9.5	23
59	Understanding and morphology control of pore modulations in nanoporous anodic alumina by discontinuous anodization. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2045-2048	1.6	23
58	Optofluidic characterization of nanoporous membranes. <i>Langmuir</i> , 2013 , 29, 2784-9	4	23
57	Hierarchical nanoporous anodic alumina templates by asymmetric two-step anodization. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 668-674	1.6	22
56	Synthesis of well-organised carbon nanotube membranes from non-degradable plastic bags with tuneable molecular transport: Towards nanotechnological recycling. <i>Carbon</i> , 2013 , 63, 423-433	10.4	21
55	Engineering the Slow Photon Effect in Photoactive Nanoporous Anodic Alumina Gradient-Index Filters for Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24124-24136	9.5	21
54	Label-Free real-time quantification of enzyme levels by interferometric spectroscopy combined with gelatin-modified nanoporous anodic alumina photonic films. <i>Analytical Chemistry</i> , 2015 , 87, 9016-24	7.8	20
53	Synthesis of Carbon Nanotube-Nanotubular Titania Composites by Catalyst-Free CVD Process: Insights into the Formation Mechanism and Photocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28361-8	9.5	19
52	Real-Time Binding Monitoring between Human Blood Proteins and Heavy Metal Ions in Nanoporous Anodic Alumina Photonic Crystals. <i>Analytical Chemistry</i> , 2018 , 90, 10039-10048	7.8	19
51	Assessment of Binding Affinity between Drugs and Human Serum Albumin Using Nanoporous Anodic Alumina Photonic Crystals. <i>Analytical Chemistry</i> , 2016 , 88, 5971-80	7.8	19
50	Structural tailoring of nanoporous anodic alumina optical microcavities for enhanced resonant recirculation of light. <i>Nanoscale</i> , 2018 , 10, 14139-14152	7.7	19
49	Localized drug delivery of selenium (Se) using nanoporous anodic aluminium oxide for bone implants. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7090-7098	7.3	18
48	Realisation and optical engineering of linear variable bandpass filters in nanoporous anodic alumina photonic crystals. <i>Nanoscale</i> , 2017 , 9, 7541-7550	7.7	15
47	Rational Management of Photons for Enhanced Photocatalysis in Structurally-Colored Nanoporous Anodic Alumina Photonic Crystals. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1169-1184	6.1	15
46	Integrating surface plasmon resonance and slow photon effects in nanoporous anodic alumina photonic crystals for photocatalysis. <i>Catalysis Science and Technology</i> , 2019 , 9, 3158-3176	5.5	14
45	Engineering of Hybrid Nanoporous Anodic Alumina Photonic Crystals by Heterogeneous Pulse Anodization. <i>Scientific Reports</i> , 2018 , 8, 9455	4.9	14

44	Quasi-ordered P3HT nanopillar-nanocap structures with controlled size. <i>Materials Letters</i> , 2010 , 64, 371-374	3.4	14
43	Light-Confining Nanoporous Anodic Alumina Microcavities by Apodized Stepwise Pulse Anodization. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4418-4434	5.6	14
42	Tunable Nanoporous Anodic Alumina Photonic Crystals by Gaussian Pulse Anodization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19778-19787	9.5	13
41	Engineered therapeutic-releasing nanoporous anodic alumina-aluminum wires with extended release of therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3846-53	9.5	13
40	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22514-22529	13	13
39	Size- and shape-controlled synthesis of well-organised carbon nanotubes using nanoporous anodic alumina with different pore diameters. <i>Journal of Colloid and Interface Science</i> , 2017 , 491, 375-389	9.3	11
38	Carbon Nanotubes/Nanoporous Anodic Alumina Composite Membranes: Influence of Template on Structural, Chemical, and Transport Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13634-13644	3.8	11
37	Fabrication and Optimization of Bilayered Nanoporous Anodic Alumina Structures as Multi-Point Interferometric Sensing Platform. <i>Sensors</i> , 2018 , 18,	3.8	10
36	Highly biocompatible carbon nanocapsules derived from plastic waste for advanced cancer therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2017 , 41, 351-358	4.5	9
35	Nanoporous photonic crystals with tailored surface chemistry for ionic copper sensing. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12278-12289	7.1	9
34	Electrochemical Engineering of Nanoporous Materials for Photocatalysis: Fundamentals, Advances, and Perspectives. <i>Catalysts</i> , 2019 , 9, 988	4	9
33	Facile and controllable route for nitrogen doping of carbon nanotubes composite membranes by catalyst-free chemical vapour deposition. <i>Carbon</i> , 2016 , 106, 295-305	10.4	8
32	Electrochemical Etching Methods for Producing Porous Silicon. <i>Springer Series in Materials Science</i> , 2015 , 1-36	0.9	7
31	Tailor-engineered structural and physico-chemical properties of anodic alumina nanotubes by pulse anodization: A step forward. <i>Microporous and Mesoporous Materials</i> , 2020 , 303, 110264	5.3	7
30	Fabrication and characterisation of sulfur and phosphorus (S/P) co-doped carbon nanotubes. <i>Chemical Physics Letters</i> , 2016 , 658, 92-96	2.5	7
29	In vivo toxicological assessment of electrochemically engineered anodic alumina nanotubes: a study of biodistribution, subcutaneous implantation and intravenous injection. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2511-2523	7.3	6
28	Realization of high-quality optical nanoporous gradient-index filters by optimal combination of anodization conditions. <i>Nanoscale</i> , 2020 , 12, 9404-9415	7.7	6
27	Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57079-57092	9.5	5

26	Nanoporous Anodic Alumina for Optical Biosensing. <i>Springer Series in Materials Science</i> , 2015 , 219-247	0.9	4
25	Nanoengineered drug-releasing aluminium wire implants: comparative investigation of nanopore geometry, drug release and osteoblast cell adhesion. <i>RSC Advances</i> , 2015 , 5, 75004-75014	3.7	4
24	Chemical Functionalization of Inner Walls of Carbon Nanotubes with Long-Chain Aliphatic Amines. <i>Nanoscience and Nanotechnology Letters</i> , 2017 , 9, 712-718	0.8	4
23	Nanoporous Alumina Membranes for Chromatography and Molecular Transporting. <i>Springer Series in Materials Science</i> , 2015 , 293-318	0.9	3
22	Tailor-engineered plasmonic single-lattices: harnessing localized surface plasmon resonances for visible-NIR light-enhanced photocatalysis. <i>Catalysis Science and Technology</i> , 2020 , 10, 3195-3211	5.5	3
21	Modulation of Macrophages Differentiation by Nanoscale-Engineered Geometric and Chemical Features.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1496-1505	4.1	3
20	Porous Silicon Particles for Cancer Therapy and Bioimaging. <i>Nanomedicine and Nanotoxicology</i> , 2018 , 305-340	0.3	3
19	Microcarriers: Luminescent Silicon Diatom Replicas: Self-Reporting and Degradable Drug Carriers with Biologically Derived Shape for Sustained Delivery of Therapeutics (Adv. Funct. Mater. 32/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 5240-5240	15.6	3
18	Template-assisted fabrication and characterization of photoluminescent polymer nanopillars. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2612-2616		3
17	Synthesis of Ordered Polymer Micro and Nanostructures Via Porous Templates 2009 ,		3
16	Harnessing Slow Light in Optoelectronically Engineered Nanoporous Photonic Crystals for Visible Light-Enhanced Photocatalysis. <i>ACS Catalysis</i> , 12947-12962	13.1	3
15	Enhancing Forbidden Light Propagation in Nanoporous Anodic Alumina Gradient-Index Filters by Alcohol Additives. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12115-12129	5.6	3
14	Electrochemically engineered nanoporous photonic crystal structures for optical sensing and biosensing 2020 , 201-226		3
13	Modified hard anodization procedure to fabricate hybrid nanoporous alumina 2009 ,		2
12	Optical engineering of nanoporous photonic crystals by Gaussian-Like pulse anodization. <i>Microporous and Mesoporous Materials</i> , 2021 , 312, 110770	5.3	2
11	Sensing and Biosensing Applications of Nanoporous Anodic Alumina. <i>Springer Series in Materials Science</i> , 2015 , 187-218	0.9	1
10	Spray-n-Sense: Sprayable Nanofibers for On-Site Chemical Sensing. <i>Advanced Functional Materials</i> , 2103496	4.6	1
9	Fine tuning of transmission features in nanoporous anodic alumina distributed Bragg reflectors 2018 ,		1

8	Developed Process Circuit Flowsheet of Al Amar Ore for Production of Nanocrystalline Ferrite and Improving Gold Recovery. <i>ACS Omega</i> , 2020 , 5, 30858-30870	3.9	1
7	Role of Spectral Resonance Features and Surface Chemistry in the Optical Sensitivity of Light-Confining Nanoporous Photonic Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14394-14406	9.5	1
6	Influence of surface chemistry on the ionic conductivity of vertically aligned carbon nanotube composite membranes. <i>RSC Advances</i> , 2016 , 6, 44288-44296	3.7	1
5	Real-time detection of per-fluoroalkyl substance (PFAS) self-assembled monolayers in nanoporous interferometers. <i>Sensors and Actuators B: Chemical</i> , 2022 , 355, 131340	8.5	0
4	Membranes: Photoswitchable Membranes Based on Peptide-Modified Nanoporous Anodic Alumina: Toward Smart Membranes for On-Demand Molecular Transport (Adv. Mater. 19/2015). <i>Advanced Materials</i> , 2015 , 27, 2950-2950	24	
3	3D dose distribution measurement using 2D imaging from NaCl optical crystals. <i>Journal of Physics: Conference Series</i> , 2020 , 1662, 012009	0.3	
2	(Invited) Effects of the Nanostructure and Fabrication Process on the Photoluminescence Properties of PFO Nanopillar Arrays. <i>ECS Transactions</i> , 2012 , 45, 199-206	1	
1	Luminescent Porous Silicon Nanoparticles for Continuous Wave and Time-Gated Photoluminescence Imaging. <i>Methods in Molecular Biology</i> , 2019 , 2054, 185-198	1.4	