

# Paul A Desario

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8600477/publications.pdf>

Version: 2024-02-01

32  
papers

1,450  
citations

535685

17  
h-index

563245

28  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protons in Catalytic Architectures: Near (NMR) and Far (Impedance). <i>Journal of the Electrochemical Society</i> , 2022, 169, 036514.	1.3	0
2	Photoenhanced Degradation of Sarin at Cu/TiO <sub>2</sub> Composite Aerogels: Roles of Bandgap Excitation and Surface Plasmon Excitation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12550-12561.	4.0	26
3	Designing Oxide Aerogels With Enhanced Sorptive and Degradative Activity for Acute Chemical Threats. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	7
4	Synthesis and applications of WO <sub>3</sub> nanosheets: the importance of phase, stoichiometry, and aspect ratio. <i>Nanoscale Advances</i> , 2021, 3, 5166-5182.	2.2	21
5	Photocatalytic CO Oxidation over Nanoparticulate Au-Modified TiO <sub>2</sub> Aerogels: The Importance of Size and Intimacy. <i>ACS Catalysis</i> , 2020, 10, 14834-14846.	5.5	25
6	Power of Aerogel Platforms to Explore Mesoscale Transport in Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41277-41287.	4.0	13
7	Stabilization of reduced copper on ceria aerogels for CO oxidation. <i>Nanoscale Advances</i> , 2020, 2, 4547-4556.	2.2	12
8	Electronic Metal-Support Interactions in the Activation of CO Oxidation over a Cu/TiO <sub>2</sub> Aerogel Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21491-21501.	1.5	21
9	Mesoporous Copper Nanoparticle/TiO <sub>2</sub> Aerogels for Room-Temperature Hydrolytic Decomposition of the Chemical Warfare Simulant Dimethyl Methylphosphonate. <i>ACS Applied Nano Materials</i> , 2020, 3, 3503-3512.	2.4	21
10	Fabricating architected zinc electrodes with unprecedented volumetric capacity in rechargeable alkaline cells. <i>Energy Storage Materials</i> , 2020, 27, 370-376.	9.5	32
11	Thermoelectric Properties of Nanocrystalline Silicon Films Prepared by Hot-Wire and Plasma-Enhanced Chemical-Vapor Depositions. <i>Journal of Electronic Materials</i> , 2019, 48, 5218-5225.	1.0	3
12	Nanosecond transient absorption studies of the pH-dependent hydrated electron quenching by HSO <sub>3</sub> <sup>•-</sup> . <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1526-1532.	1.6	23
13	Low-temperature CO oxidation at persistent low-valent Cu nanoparticles on TiO <sub>2</sub> aerogels. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 205-213.	10.8	47
14	Trapping a Ru <sub>2</sub> O <sub>3</sub> Corundum-like Structure at Ultrathin, Disordered RuO <sub>2</sub> Nanoskins Expressed in 3D. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28895-28900.	1.5	8
15	Static and Time-Resolved Terahertz Measurements of Photoconductivity in Solution-Deposited Ruthenium Dioxide Nanofilms. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4037-4044.	1.5	17
16	Rewriting Electron-Transfer Kinetics at Pyrolytic Carbon Electrodes Decorated with Nanometric Ruthenium Oxide. <i>Langmuir</i> , 2017, 33, 9416-9425.	1.6	5
17	Electroanalytical Assessment of the Effect of Ni:Fe Stoichiometry and Architectural Expression on the Bifunctional Activity of Nanoscale Ni <sub>y</sub> Fe <sub>1-y</sub> O <sub>x</sub> . <i>Langmuir</i> , 2017, 33, 9390-9397.	1.6	11
18	Competitive Oxygen Evolution in Acid Electrolyte Catalyzed at Technologically Relevant Electrodes Painted with Nanoscale RuO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2387-2395.	4.0	48

#	ARTICLE	IF	CITATIONS
19	Plasmonic Aerogels as a Three-Dimensional Nanoscale Platform for Solar Fuel Photocatalysis. <i>Langmuir</i> , 2017, 33, 9444-9454.	1.6	33
20	Oxidation-stable plasmonic copper nanoparticles in photocatalytic TiO <sub>2</sub> nanoarchitectures. <i>Nanoscale</i> , 2017, 9, 11720-11729.	2.8	76
21	Transient Optical and Terahertz Spectroscopy of Nanoscale Films of RuO <sub>2</sub> . <i>Plasmonics</i> , 2017, 12, 743-750.	1.8	6
22	Aberration-corrected Scanning Transmission Electron Microscopy and Spectroscopy of Nonprecious Metal Nanoparticles in Titania Aerogels. <i>Microscopy and Microanalysis</i> , 2016, 22, 324-325.	0.2	0
23	Review of roles for photonic crystals in solar fuels photocatalysis. <i>Journal of Photonics for Energy</i> , 2016, 7, 012007.	0.8	14
24	Two-dimensional gallium nitride realized via graphene encapsulation. <i>Nature Materials</i> , 2016, 15, 1166-1171.	13.3	626
25	Aerogel Architectures Boost Oxygen Evolution Performance of NiFe <sub>2</sub> O <sub>4</sub> Spinel to Activity Levels Commensurate with Nickel-Rich Oxides. <i>ChemElectroChem</i> , 2016, 3, 1369-1375.	1.7	20
26	Correlating Changes in Electron Lifetime and Mobility on Photocatalytic Activity at Network-Modified TiO <sub>2</sub> Aerogels. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17529-17538.	1.5	42
27	Plasmonic enhancement of visible-light water splitting with Au@TiO <sub>2</sub> composite aerogels. <i>Nanoscale</i> , 2013, 5, 8073.	2.8	130
28	Ultraviolet and Visible Photochemistry of Methanol at 3D Mesoporous Networks: TiO <sub>2</sub> and Au@TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 15035-15049.	1.5	49
29	Nanoscale structure of Ti <sub>1-x</sub> Nb <sub>y</sub> O <sub>2</sub> mixed-phase thin films: Distribution of crystal phase and dopants. <i>Journal of Materials Research</i> , 2012, 27, 944-950.	1.2	0
30	The effect of Nb substitution on synthesis and photo-response of TiO <sub>2</sub> thin films prepared by direct current magnetron sputtering. <i>Thin Solid Films</i> , 2011, 519, 3562-3568.	0.8	11
31	Effect of crystal phase composition on the reductive and oxidative abilities of TiO <sub>2</sub> nanotubes under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 354-360.	10.8	100
32	CeO <sub>2</sub> Aerogel-Induced Resilience of Catalytic Ni(OH) <sub>2</sub> under Oxidizing Conditions. <i>Chemistry of Materials</i> , 0, , .	3.2	3