

LaÏtitia Vs Philippe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7625783/publications.pdf>

Version: 2024-02-01

101
papers

2,683
citations

159358

30
h-index

214527

47
g-index

103
all docs

103
docs citations

103
times ranked

3768
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow Urchin-like ZnO thin Films by Electrochemical Deposition. <i>Advanced Materials</i> , 2010, 22, 1607-1612.	11.1	175
2	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. <i>Crystal Growth and Design</i> , 2010, 10, 587-596.	1.4	122
3	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 129-146.	10.8	98
4	Photocatalytic treatment of natural waters. Reality or hype? The case of cyanotoxins remediation. <i>Water Research</i> , 2021, 188, 116543.	5.3	88
5	High-Performance Transparent Conductors from Networks of Gold Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 3058-3062.	2.1	84
6	Micromechanics of Amorphous Metal/Polymer Hybrid Structures with 3D Cellular Architectures: Size Effects, Buckling Behavior, and Energy Absorption Capability. <i>Small</i> , 2017, 13, 1602514.	5.2	76
7	Ordered networks of ZnO-nanowire hierarchical urchin-like structures for improved dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12948.	1.3	68
8	Simple Synthetic Route for SERS-Active Gold Nanoparticles Substrate with Controlled Shape and Organization. <i>Langmuir</i> , 2010, 26, 14364-14371.	1.6	67
9	Nanomechanical testing at high strain rates: New instrumentation for nanoindentation and microcompression. <i>Materials and Design</i> , 2018, 148, 39-48.	3.3	65
10	Urchin-inspired zinc oxide as building blocks for nanostructured solar cells. <i>Nano Energy</i> , 2012, 1, 696-705.	8.2	61
11	Efficient magnetic hybrid ZnO-based photocatalysts for visible-light-driven removal of toxic cyanobacteria blooms and cyanotoxins. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118745.	10.8	61
12	Investigating Localized Degradation of Organic Coatings. <i>Journal of the Electrochemical Society</i> , 2003, 150, B111.	1.3	60
13	Elevated temperature, strain rate jump microcompression of nanocrystalline nickel. <i>Philosophical Magazine</i> , 2015, 95, 1878-1895.	0.7	60
14	An FTIR/ATR in situ study of sorption and transport in corrosion protective organic coatings. <i>Progress in Organic Coatings</i> , 2004, 49, 302-314.	1.9	59
15	Highly reduced ecotoxicity of ZnO-based micro/nanostructures on aquatic biota: Influence of architecture, chemical composition, fixation, and photocatalytic efficiency. <i>Water Research</i> , 2020, 169, 115210.	5.3	57
16	Electrochemical growth of ZnO nanowires on atomic layer deposition coated polystyrene sphere templates. <i>Electrochimica Acta</i> , 2013, 110, 387-392.	2.6	56
17	Validation of electrochemical impedance measurements for water sorption into epoxy coatings using gravimetry and infra-red spectroscopy. <i>Corrosion Science</i> , 2008, 50, 887-896.	3.0	50
18	Hybrid Ni@ZnO@ZnS-Microalgae for Circular Economy: A Smart Route to the Efficient Integration of Solar Photocatalytic Water Decontamination and Bioethanol Production. <i>Advanced Science</i> , 2020, 7, 1902447.	5.6	49

#	ARTICLE	IF	CITATIONS
19	<i>In situ</i> tensile testing of individual Co nanowires inside a scanning electron microscope. Nanotechnology, 2009, 20, 365706.	1.3	47
20	Electrodeposition of gold thin films with controlled morphologies and their applications in electrocatalysis and SERS. Nanotechnology, 2012, 23, 255705.	1.3	45
21	In situ SEM indentation experiments: Instruments, methodology, and applications. Microscopy Research and Technique, 2009, 72, 242-249.	1.2	43
22	Influence of lower current densities on the residual stress and structure of thick nickel electrodeposits. Surface and Coatings Technology, 2011, 205, 3651-3657.	2.2	43
23	Electrodeposition of amorphous silicon in non-oxygenated organic solvent. Thin Solid Films, 2012, 520, 1895-1901.	0.8	39
24	Orientation-controlled nanotwinned copper prepared by electrodeposition. Electrochimica Acta, 2015, 178, 458-467.	2.6	39
25	Ordered hexagonal array of Au nanodots on Si substrate based on colloidal crystal templating. Nanotechnology, 2008, 19, 405304.	1.3	36
26	Extended domains of organized nanorings of silver grains as surface-enhanced Raman scattering sensors for molecular detection. Nanotechnology, 2009, 20, 455302.	1.3	35
27	Comparison of In Situ Micromechanical Strain-Rate Sensitivity Measurement Techniques. Jom, 2015, 67, 1684-1693.	0.9	35
28	Adhesion Control for Micro- and Nanomanipulation. ACS Nano, 2011, 5, 4648-4657.	7.3	34
29	Electrochemical Deposition of Metals Inside High Aspect Ratio Nanoelectrode Array: Analytical Current Expression and Multidimensional Kinetic Model for Cobalt Nanostructure Synthesis. Journal of Physical Chemistry C, 2007, 111, 5229-5235.	1.5	31
30	Orientation-dependent mechanical behaviour of electrodeposited copper with nanoscale twins. Nanoscale, 2016, 8, 15999-16004.	2.8	31
31	Room temperature stress relaxation in nanocrystalline Ni measured by micropillar compression and miniature tension. Journal of Materials Research, 2016, 31, 1085-1095.	1.2	29
32	Electrodeposition of amorphous Fe-Cr-Ni stainless steel alloy with high corrosion resistance, low cytotoxicity and soft magnetic properties. Surface and Coatings Technology, 2018, 349, 745-751.	2.2	29
33	An FTIR/ATR in situ study of sorption and transport in corrosion protective organic coatings. Progress in Organic Coatings, 2004, 49, 315-323.	1.9	28
34	Deformation of Doubly Clamped Single-Walled Carbon Nanotubes in an Electrostatic Field. Physical Review Letters, 2009, 102, 215501.	2.9	27
35	Nanoparticles-based nanochannels assembled on a plastic flexible substrate for label-free immunosensing. Nano Research, 2015, 8, 1180-1188.	5.8	27
36	Bioinspired ZnO-Based Solar Photocatalysts for the Efficient Decontamination of Persistent Organic Pollutants and Hexavalent Chromium in Wastewater. Catalysts, 2019, 9, 974.	1.6	27

#	ARTICLE	IF	CITATIONS
37	Electroplating of Stainless Steel. <i>Chemistry of Materials</i> , 2008, 20, 3377-3384.	3.2	24
38	Reducing the Adhesion between Surfaces Using Surface Structuring with PS Latex Particle. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1630-1636.	4.0	23
39	Yield stress of monocrystalline rhenium nanowires. <i>Applied Physics Letters</i> , 2007, 91, 111919.	1.5	21
40	Stainless steel-like FeCrNi nanostructures via electrodeposition into AAO templates using a mixed-solvent Cr(III)-based electrolyte. <i>Materials and Design</i> , 2020, 190, 108559.	3.3	21
41	Autophagy is used as a survival program in unfertilized sea urchin eggs that are destined to die by apoptosis after inactivation of MAPK1/3 (ERK2/1). <i>Autophagy</i> , 2013, 9, 1527-1539.	4.3	20
42	Ordered arrays of epitaxial silicon nanowires produced by nanosphere lithography and chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2010, 312, 2887-2891.	0.7	19
43	ZnO Nanowires, Nanotubes, and Complex Hierarchical Structures Obtained by Electrochemical Deposition. <i>Journal of Electronic Materials</i> , 2011, 40, 728-732.	1.0	19
44	Intracellular and Extracellular pH and Ca Are Bound to Control Mitosis in the Early Sea Urchin Embryo via ERK and MPF Activities. <i>PLoS ONE</i> , 2013, 8, e66113.	1.1	19
45	A Kinetic Model Enabling Controlled Electrosynthesis of Stacked Metallic Nanotubes and Nanowires. <i>Small</i> , 2008, 4, 904-907.	5.2	18
46	Urchin-like ZnO Thin Films: Hollow Urchin-like ZnO thin Films by Electrochemical Deposition (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	11.1	18
47	A self-aligning microtensile setup: Application to single-crystal GaAs microscale tension-compression asymmetry. <i>Journal of Materials Research</i> , 2019, 34, 2517-2534.	1.2	18
48	Deflection of suspended graphene by a transverse electric field. <i>Physical Review B</i> , 2010, 81, .	1.1	17
49	Compression of Nanowires Using a Flat Indenter: Diametrical Elasticity Measurement. <i>Nano Letters</i> , 2012, 12, 2289-2293.	4.5	17
50	Metallurgical and chemical characterization of copper alloy reference materials within laser ablation inductively coupled plasma mass spectrometry: Method development for minimally-invasive analysis of ancient bronze objects. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 79-80, 17-30.	1.5	17
51	Pulse electrodeposition of adherent nickel coatings onto anodized aluminium surfaces. <i>Applied Surface Science</i> , 2015, 330, 39-47.	3.1	17
52	Nanomechanics of rhenium wires: Elastic modulus, yield strength and strain hardening. <i>Acta Materialia</i> , 2009, 57, 4032-4035.	3.8	16
53	Electroless Deposition of Ni-Fe Alloys on Scaffolds for 3D Nanomagnetism. <i>Small</i> , 2020, 16, e2004099.	5.2	16
54	Thermal conductivity reduction by nanostructuring in electrodeposited CuNi alloys. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3447-3454.	2.7	16

#	ARTICLE	IF	CITATIONS
55	The electrodeposition of FeCrNi stainless steel: microstructural changes induced by anode reactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26375-26384.	1.3	15
56	Electrodeposition of Mesoporous Ni-Rich Ni-Pt Films for Highly Efficient Methanol Oxidation. <i>Nanomaterials</i> , 2020, 10, 1435.	1.9	15
57	Efficient and green electrochemical synthesis of 4-aminophenol using porous Au micropillars. <i>Applied Catalysis A: General</i> , 2020, 602, 117698.	2.2	15
58	Recycled cyanobacteria ashes for sono-enhanced photo-Fenton wastewater decontamination. <i>Journal of Cleaner Production</i> , 2020, 267, 121881.	4.6	15
59	Recent progress in the electrochemical deposition of ZnO nanowires: synthesis approaches and applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 772-805.	6.8	15
60	Passing the limit of electrodeposition: "Gas template"™ H ₂ nanobubbles for growing highly crystalline nanoporous ZnO. <i>Nano Energy</i> , 2012, 1, 742-750.	8.2	14
61	Nonaqueous Sol-Gel Synthesis of Anatase Nanoparticles and Their Electrophoretic Deposition in Porous Alumina. <i>Langmuir</i> , 2017, 33, 12404-12418.	1.6	14
62	Electrodeposition of dilute Ni-W alloy with enhanced thermal stability: Accessing nanotwinned to nanocrystalline microstructures. <i>Materials Today Communications</i> , 2017, 12, 63-71.	0.9	14
63	"Green"™ Cr(III)-glycine electrolyte for the production of FeCrNi coatings: electrodeposition mechanisms and role of by-products in terms of coating composition and microstructure. <i>RSC Advances</i> , 2019, 9, 25762-25775.	1.7	14
64	Additive Manufacturing through Galvanofarming of 3D Nickel Microarchitectures: Simulation-Assisted Synthesis. <i>Advanced Materials Technologies</i> , 2018, 3, 1800274.	3.0	13
65	Phase and microstructure control of electrodeposited Manganese Oxide with enhanced optical properties. <i>Applied Surface Science</i> , 2022, 580, 152289.	3.1	13
66	Different routes lead to apoptosis in unfertilized sea urchin eggs. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 436-450.	2.2	12
67	Additive manufacturing by template-assisted 3D electrodeposition: Nanocrystalline nickel microsprints and microsprint arrays. <i>Applied Materials Today</i> , 2020, 18, 100472.	2.3	12
68	Mechanism of formation of urchin-like ZnO. <i>Electrochimica Acta</i> , 2011, 56, 9532-9536.	2.6	11
69	Synthesis and attachment of silver nanowires on atomic force microscopy cantilevers for tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 745-749.	1.2	11
70	Stabilization mechanism of electrodeposited silicon thin films. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22222-22228.	1.3	11
71	Lattice thermal conductivity of Bi ₂ S ₃ and SnSe using Debye-Callaway and Monte Carlo phonon transport modeling: Application to nanofilms and nanowires. <i>Physical Review B</i> , 2019, 100, .	1.1	11
72	Electrodeposited Ni-Rich Ni-Pt Mesoporous Nanowires for Selective and Efficient Formic Acid-Assisted Hydrogenation of Levulinic Acid to Î³-Valerolactone. <i>Langmuir</i> , 2021, 37, 4666-4677.	1.6	11

#	ARTICLE	IF	CITATIONS
73	High Aspect-Ratio Nanocrystalline CuNi T-Structures and Micro-Gears: Synthesis, Numerical Modeling and Characterization. <i>Journal of the Electrochemical Society</i> , 2019, 166, E310-E316.	1.3	10
74	Understanding the electrochemical, microstructural and morphological changes during hot rolling from a corrosion perspective. <i>Surface and Coatings Technology</i> , 2006, 201, 828-834.	2.2	9
75	A comparison of microtensile and microcompression methods for studying plastic properties of nanocrystalline electrodeposited nickel at different length scales. <i>Journal of Materials Research</i> , 2008, 23, 1383-1388.	1.2	9
76	Applications of colloidal crystal patterning for synthesis of 1D and 3D nanostructured semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1426-1432.	0.8	9
77	Mechanical properties and interface toughness of metal filled nanoporous anodic aluminum oxide coatings on aluminum. <i>Surface and Coatings Technology</i> , 2014, 260, 246-250.	2.2	9
78	Electrodeposition of PbTe thin films: electrochemical behavior and effect of reverse pulse potential. <i>Electrochimica Acta</i> , 2015, 173, 490-496.	2.6	8
79	On the growth mechanism of electrodeposited PbTe dendrites. <i>CrystEngComm</i> , 2016, 18, 2319-2326.	1.3	8
80	Determination of the true projected contact area by in situ indentation testing. <i>Journal of Materials Research</i> , 2019, 34, 2859-2868.	1.2	7
81	Gold flails by electrochemical deposition: The role of gelatin. <i>Electrochimica Acta</i> , 2011, 56, 1485-1489.	2.6	6
82	PLC β , G-protein of the G β q type and cADPr pathway are associated to trigger the fertilization Ca ²⁺ signal in the sea urchin egg. <i>Cell Calcium</i> , 2012, 52, 388-396.	1.1	6
83	Structural and optical characterization of electrodeposited CdSe in mesoporous anatase TiO ₂ for regenerative quantum-dot-sensitized solar cells. <i>Nanotechnology</i> , 2012, 23, 395401.	1.3	6
84	Removal of Cyanobacteria and Cyanotoxins in Waters. <i>Toxins</i> , 2021, 13, 636.	1.5	6
85	Direct observation of spin correlations in an artificial triangular lattice Ising spin system with grazing-incidence small-angle neutron scattering. <i>Nanoscale Horizons</i> , 2021, 6, 474-481.	4.1	5
86	Dual-templated electrodeposition and characterization of regular metallic foam based microarchitectures. <i>Applied Materials Today</i> , 2020, 20, 100667.	2.3	5
87	Mechanical behavior of intragranular, nano-porous electrodeposited zinc oxide. <i>Thin Solid Films</i> , 2015, 578, 174-179.	0.8	4
88	Nanoscale 3D Electroforming by Template Pyrolysis. <i>Advanced Engineering Materials</i> , 2021, 23, 2001293.	1.6	4
89	Dynamic cryo-mechanical properties of additively manufactured nanocrystalline nickel 3D microarchitectures. <i>Materials and Design</i> , 2022, 220, 110836.	3.3	4
90	Epoxide assisted metal oxide replication (EAMOR): a new technique for metal oxide patterning. <i>RSC Advances</i> , 2014, 4, 36494.	1.7	3

#	ARTICLE	IF	CITATIONS
91	Magneli Phase Titanium Oxide: Electrochemical Routes and Characterisation. ECS Transactions, 2014, 61, 393-404.	0.3	2
92	Spectroscopic characterization and photoactivity of SiO _x -based films electrochemically grown on Cu surfaces. Journal of Applied Electrochemistry, 2017, 47, 917-930.	1.5	2
93	Electrodeposition of Tin Selenide from Oxalate-Based Aqueous Solution. Journal of the Electrochemical Society, 2020, 167, 162502.	1.3	2
94	Mass-Transfer Characterization of a Propeller Plating Cell for Microelectromechanical Systems. Journal of the Electrochemical Society, 2006, 153, C755.	1.3	1
95	Well Ordered Hollow Urchin-Like ZnO by Electrodeposition. ECS Transactions, 2010, 33, 67-73.	0.3	1
96	A set of empirical equations describing the observed colours of metal anodic aluminium oxide nanostructures. Beilstein Journal of Nanotechnology, 2020, 11, 798-806.	1.5	1
97	In-situ Testing of Mechanical Properties of Materials. , 2010, , 331-343.		1
98	Electrochemical Synthesis Of Silver And Gold Nanostructures For Surface-Enhanced Raman Spectroscopy. , 2010, , .		0
99	Synthesis And Nanosoldering Of Nanowires For Tip-Enhanced Raman Spectroscopy. , 2010, , .		0
100	Influence of Experimental Parameters on the Synthesis of Gold Nanoparticles by Electroless Deposition. Advanced Materials Research, 0, 324, 125-128.	0.3	0
101	Development of microdevices for the in-plane thermoelectric characterization of deposited films. Journal of Materials Research and Technology, 2021, 15, 1190-1200.	2.6	0