LaÃ«titia Vs Philippe

List of Publications by Year
in descending order

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	Recent progress in the electrochemical deposition of ZnO nanowires: synthesis approaches and applications. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 772-805.	6.8	15
2	Phase and microstructure control of electrodeposited Manganese Oxide with enhanced optical properties. Applied Surface Science, 2022, 580, 152289.	3.1	13
3	Dynamic cryo-mechanical properties of additively manufactured nanocrystalline nickel 3D microarchitectures. Materials and Design, 2022, 220, 110836.	3.3	4
4	Photocatalytic treatment of natural waters. Reality or hype? The case of cyanotoxins remediation. Water Research, 2021, 188, 116543.	5.3	88
5	Thermal conductivity reduction by nanostructuration in electrodeposited CuNi alloys. Journal of Materials Chemistry C, 2021, 9, 3447-3454.	2.7	16
6	Direct observation of spin correlations in an artificial triangular lattice Ising spin system with grazing-incidence small-angle neutron scattering. Nanoscale Horizons, 2021, 6, 474-481.	4.1	5
7	Nanoscale 3D Electroforming by Template Pyrolysis. Advanced Engineering Materials, 2021, 23, 2001293.	1.6	4
8	Electrodeposited Ni-Rich Niâ€“Pt Mesoporous Nanowires for Selective and Efficient Formic Acid-Assisted Hydrogenation of Levulinic Acid to Î³-Valerolactone. Langmuir, 2021, 37, 4666-4677.	1.6	11
9	Removal of Cyanobacteria and Cyanotoxins in Waters. Toxins, 2021, 13, 636.	1.5	6
10	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
11	Highly reduced ecotoxicity of ZnO-based micro/nanostructures on aquatic biota: Influence of architecture, chemical composition, fixation, and photocatalytic efficiency. Water Research, 2020, 169, 115210.	5.3	57
12	Additive manufacturing by template-assisted 3D electrodeposition: Nanocrystalline nickel microsprings and microspring arrays. Applied Materials Today, 2020, 18, 100472.	2.3	12
13	Hybrid Ni@ZnO@ZnSâ€Microalgae for Circular Economy: A Smart Route to the Efficient Integration of Solar Photocatalytic Water Decontamination and Bioethanol Production. Advanced Science, 2020, 7, 1902447.	5.6	49
14	Electroless Deposition of Niâ€“Fe Alloys on Scaffolds for 3D Nanomagnetism. Small, 2020, 16, e2004099.	5.2	16
15	Electrodeposition of Mesoporous Ni-Rich Ni-Pt Films for Highly Efficient Methanol Oxidation. Nanomaterials, 2020, 10, 1435.	1.9	15
16	A set of empirical equations describing the observed colours of metalâ€“anodic aluminium oxideâ€“Al nanostructures. Beilstein Journal of Nanotechnology, 2020, 11, 798-806.	1.5	1
17	Efficient and green electrochemical synthesis of 4-aminophenol using porous Au micropillars. Applied Catalysis A: General, 2020, 602, 117698.	2.2	15
18	Recycled cyanobacteria ashes for sono-enhanced photo-Fenton wastewater decontamination. Journal of Cleaner Production, 2020, 267, 121881.	4.6	15

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19	Efficient magnetic hybrid ZnO-based photocatalysts for visible-light-driven removal of toxic cyanobacteria blooms and cyanotoxins. Applied Catalysis B: Environmental, 2020, 268, 118745.	10.8	61
20	Stainless steel-like FeCrNi nanostructures via electrodeposition into AAO templates using a mixed-solvent Cr(III)-based electrolyte. Materials and Design, 2020, 190, 108559.	3.3	21
21	Dual-templated electrodeposition and characterization of regular metallic foam based microarchitectures. Applied Materials Today, 2020, 20, 100667.	2.3	5
22	Electrodeposition of Tin Selenide from Oxalate-Based Aqueous Solution. Journal of the Electrochemical Society, 2020, 167, 162502.	1.3	2
23	A self-aligning microtensile setup: Application to single-crystal GaAs microscale tensionâ€“compression asymmetry. Journal of Materials Research, 2019, 34, 2517-2534.	1.2	18
24	Lattice thermal conductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:n and SnSe using Debye-Callaway and Monte Carlo phonon transport modeling: Application to nanofilms and nanowires. Physical Review B, 2019, 100, .	1.1	11
25	Determination of the true projected contact area by in situ indentation testing. Journal of Materials Research, 2019, 34, 2859-2868.	1.2	7
26	â€˜Greenâ€™ Cr(<scp>iii</scp>)â€“glycine electrolyte for the production of FeCrNi coatings: electrodeposition mechanisms and role of by-products in terms of coating composition and microstructure. RSC Advances, 2019, 9, 25762-25775.	1.7	14
27	High Aspect-Ratio Nanocrystalline CuNi T-Structures and Micro-Gears: Synthesis, Numerical Modeling and Characterization. Journal of the Electrochemical Society, 2019, 166, E310-E316.	1.3	10
28	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. Applied Catalysis B: Environmental, 2019, 248, 129-146.	10.8	98
29	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
30	Nanomechanical testing at high strain rates: New instrumentation for nanoindentation and microcompression. Materials and Design, 2018, 148, 39-48.	3.3	65
31	Additive Manufacturing through Galvanoforming of 3D Nickel Microarchitectures: Simulationâ€Assisted Synthesis. Advanced Materials Technologies, 2018, 3, 1800274.	3.0	13
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	Micromechanics of Amorphous Metal/Polymer Hybrid Structures with 3D Cellular Architectures: Size Effects, Buckling Behavior, and Energy Absorption Capability. Small, 2017, 13, 1602514.	5.2	76
34	Nonaqueous Solâ€“Gel Synthesis of Anatase Nanoparticles and Their Electrophoretic Deposition in Porous Alumina. Langmuir, 2017, 33, 12404-12418.	1.6	14
35	Electrodeposition of dilute Ni-W alloy with enhanced thermal stability: Accessing nanotwinned to nanocrystalline microstructures. Materials Today Communications, 2017, 12, 63-71.	0.9	14
36	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

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37	Orientation-dependent mechanical behaviour of electrodeposited copper with nanoscale twins. Nanoscale, 2016, 8, 15999-16004.	2.8	31
38	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
39	On the growth mechanism of electrodeposited PbTe dendrites. CrystEngComm, 2016, 18, 2319-2326.	1.3	8
40	Electrodeposition of PbTe thin films: electrochemical behavior and effect of reverse pulse potential. Electrochimica Acta, 2015, 173, 490-496.	2.6	8
41	Orientation-controlled nanotwinned copper prepared by electrodeposition. Electrochimica Acta, 2015, 178, 458-467.	2.6	39
42	Pulse electrodeposition of adherent nickel coatings onto anodized aluminium surfaces. Applied Surface Science, 2015, 330, 39-47.	3.1	17
43	Mechanical behavior of intragranular, nano-porous electrodeposited zinc oxide. Thin Solid Films, 2015, 578, 174-179.	0.8	4
44	Comparison of In Situ Micromechanical Strain-Rate Sensitivity Measurement Techniques. Jom, 2015, 67, 1684-1693.	0.9	35
45	Nanoparticles-based nanochannels assembled on a plastic flexible substrate for label-free immunosensing. Nano Research, 2015, 8, 1180-1188.	5.8	27
46	Elevated temperature, strain rate jump microcompression of nanocrystalline nickel. Philosophical Magazine, 2015, 95, 1878-1895.	0.7	60
47	Mechanical properties and interface toughness of metal filled nanoporous anodic aluminum oxide coatings on aluminum. Surface and Coatings Technology, 2014, 260, 246-250.	2.2	9
48	Magneli Phase Titanium Oxide: Electrochemical Routes and Characterisation. ECS Transactions, 2014, 61, 393-404.	0.3	2
49	Different routes lead to apoptosis in unfertilized sea urchin eggs. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 436-450.	2.2	12
50	The electrodeposition of FeCrNi stainless steel: microstructural changes induced by anode reactions. Physical Chemistry Chemical Physics, 2014, 16, 26375-26384.	1.3	15
51	Stabilization mechanism of electrodeposited silicon thin films. Physical Chemistry Chemical Physics, 2014, 16, 22222-22228.	1.3	11
52	Epoxide assisted metal oxide replication (EAMOR): a new technique for metal oxide patterning. RSC Advances, 2014, 4, 36494.	1.7	3
53	Electrochemical growth of ZnO nanowires on atomic layer deposition coated polystyrene sphere templates. Electrochimica Acta, 2013, 110, 387-392.	2.6	56
54	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. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 79-80, 17-30.	1.5	17

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55	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). Autophagy, 2013, 9, 1527-1539.	4.3	20
56	Intracellular and Extracellular pH and Ca Are Bound to Control Mitosis in the Early Sea Urchin Embryo via ERK and MPF Activities. PLoS ONE, 2013, 8, e66113.	1.1	19
57	PLCÎ³, G-protein of the GÎ±q type and cADPr pathway are associated to trigger the fertilization Ca2+ signal in the sea urchin egg. Cell Calcium, 2012, 52, 388-396.	1.1	6
58	Ordered networks of ZnO-nanowire hierarchical urchin-like structures for improved dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 12948.	1.3	68
59	Structural and optical characterization of electrodeposited CdSe in mesoporous anatase TiO2for regenerative quantum-dot-sensitized solar cells. Nanotechnology, 2012, 23, 395401.	1.3	6
60	Compression of Nanowires Using a Flat Indenter: Diametrical Elasticity Measurement. Nano Letters, 2012, 12, 2289-2293.	4.5	17
61	Passing the limit of electrodeposition: â€˜Gas templateâ€™ H2 nanobubbles for growing highly crystalline nanoporous ZnO. Nano Energy, 2012, 1, 742-750.	8.2	14
62	Urchin-inspired zinc oxide as building blocks for nanostructured solar cells. Nano Energy, 2012, 1, 696-705.	8.2	61
63	Electrodeposition of gold thin films with controlled morphologies and their applications in electrocatalysis and SERS. Nanotechnology, 2012, 23, 255705.	1.3	45
64	Synthesis and attachment of silver nanowires on atomic force microscopy cantilevers for tipâ€enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 745-749.	1.2	11
65	Electrodeposition of amorphous silicon in non-oxygenated organic solvent. Thin Solid Films, 2012, 520, 1895-1901.	0.8	39
66	High-Performance Transparent Conductors from Networks of Gold Nanowires. Journal of Physical Chemistry Letters, 2011, 2, 3058-3062.	2.1	84
67	Adhesion Control for Micro- and Nanomanipulation. ACS Nano, 2011, 5, 4648-4657.	7.3	34
68	Mechanism of formation of urchin-like ZnO. Electrochimica Acta, 2011, 56, 9532-9536.	2.6	11
69	ZnO Nanowires, Nanotubes, and Complex Hierarchical Structures Obtained by Electrochemical Deposition. Journal of Electronic Materials, 2011, 40, 728-732.	1.0	19
70	Applications of colloidal crystal patterning for synthesis of 1D and 3D nanostructured semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1426-1432.	0.8	9
71	Gold flails by electrochemical deposition: The role of gelatin. Electrochimica Acta, 2011, 56, 1485-1489.	2.6	6
72	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

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73	Ordered arrays of epitaxial silicon nanowires produced by nanosphere lithography and chemical vapor deposition. Journal of Crystal Growth, 2010, 312, 2887-2891.	0.7	19
74	Hollow Urchinâ€like ZnO thin Films by Electrochemical Deposition. Advanced Materials, 2010, 22, 1607-1612.	11.1	175
75	Urchinâ€like ZnO Thin Films: Hollow Urchinâ€like ZnO thin Films by Electrochemical Deposition (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	11.1	18
76	Well Ordered Hollow Urchin-Like ZnO by Electrodeposition. ECS Transactions, 2010, 33, 67-73.	0.3	1
77	Electrochemical Synthesis Of Silver And Gold Nanostructures For Surface-Enhanced Raman Spectroscopy. , 2010, , .		0
78	Synthesis And Nanosoldering Of Nanowires For Tip-Enhanced Raman Spectroscopy. , 2010, , .		0
79	Deflection of suspended graphene by a transverse electric field. Physical Review B, 2010, 81, .	1.1	17
80	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. Crystal Growth and Design, 2010, 10, 587-596.	1.4	122
81	Reducing the Adhesion between Surfaces Using Surface Structuring with PS Latex Particle. ACS Applied Materials & Interfaces, 2010, 2, 1630-1636.	4.0	23
82	Simple Synthetic Route for SERS-Active Gold Nanoparticles Substrate with Controlled Shape and Organization. Langmuir, 2010, 26, 14364-14371.	1.6	67
83	In-situ Testing of Mechanical Properties of Materials. , 2010, , 331-343.		1
84	Deformation of Doubly Clamped Single-Walled Carbon Nanotubes in an Electrostatic Field. Physical Review Letters, 2009, 102, 215501.	2.9	27
85	In situtensile testing of individual Co nanowires inside a scanning electron microscope. Nanotechnology, 2009, 20, 365706.	1.3	47
86	In situ SEM indentation experiments: Instruments, methodology, and applications. Microscopy Research and Technique, 2009, 72, 242-249.	1.2	43
87	Nanomechanics of rhenium wires: Elastic modulus, yield strength and strain hardening. Acta Materialia, 2009, 57, 4032-4035.	3.8	16
88	Extended domains of organized nanorings of silver grains as surface-enhanced Raman scattering sensors for molecular detection. Nanotechnology, 2009, 20, 455302.	1.3	35
89	A Kinetic Model Enabling Controlled Electrosynthesis of Stacked Metallic Nanotubes and Nanowires. Small, 2008, 4, 904-907.	5.2	18
90	Validation of electrochemical impedance measurements for water sorption into epoxy coatings using gravimetry and infra-red spectroscopy. Corrosion Science, 2008, 50, 887-896.	3.0	50

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91	Electroplating of Stainless Steel. Chemistry of Materials, 2008, 20, 3377-3384.	3.2	24
92	A comparison of microtensile and microcompression methods for studying plastic properties of nanocrystalline electrodeposited nickel at different length scales. Journal of Materials Research, 2008, 23, 1383-1388.	1.2	9
93	Ordered hexagonal array of Au nanodots on Si substrate based on colloidal crystal templating. Nanotechnology, 2008, 19, 405304.	1.3	36
94	Yield stress of monocrystalline rhenium nanowires. Applied Physics Letters, 2007, 91, 111919.	1.5	21
95	Electrochemical Deposition of Metals Inside High Aspect Ratio Nanoelectrode Array:â€‰ Analytical Current Expression and Multidimensional Kinetic Model for Cobalt Nanostructure Synthesis. Journal of Physical Chemistry C, 2007, 111, 5229-5235.	1.5	31
96	Understanding the electrochemical, microstructural and morphological changes during hot rolling from a corrosion perspective. Surface and Coatings Technology, 2006, 201, 828-834.	2.2	9
97	Mass-Transfer Characterization of a Propeller Plating Cell for Microelectromechanical Systems. Journal of the Electrochemical Society, 2006, 153, C755.	1.3	1
98	An FTIR/ATR in situ study of sorption and transport in corrosion protective organic coatings. Progress in Organic Coatings, 2004, 49, 302-314.	1.9	59
99	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
100	Investigating Localized Degradation of Organic Coatings. Journal of the Electrochemical Society, 2003, 150, B111.	1.3	60
101	Influence of Experimental Parameters on the Synthesis of Gold Nanoparticles by Electroless Deposition. Advanced Materials Research, 0, 324, 125-128.	0.3	0