

Luis Yate

List of Publications by Year in descending order

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papers

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citations

185998

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276539

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86
all docs

86
docs citations

86
times ranked

3511
citing authors

#	ARTICLE	IF	CITATIONS
1	TiCN/TiNbCN multilayer coatings with enhanced mechanical properties. Applied Surface Science, 2010, 256, 5898-5904.	3.1	101
2	Tuning the antioxidant activity of graphene quantum dots: Protective nanomaterials against dye decoloration. Carbon, 2017, 116, 366-374.	5.4	100
3	Graphene quantum dot membranes as fluorescent sensing platforms for Cr (VI) detection. Carbon, 2016, 109, 658-665.	5.4	87
4	Palladium Nanoparticle-Loaded Cellulose Paper: A Highly Efficient, Robust, and Recyclable Self-Assembled Composite Catalytic System. Journal of Physical Chemistry Letters, 2015, 6, 230-238.	2.1	82
5	Hard coating performance enhancement by using [Ti/TiN] _n , [Zr/ZrN] _n and [TiN/ZrN] _n multilayer system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 171, 56-61.	1.7	66
6	Effect of applied bias voltage on corrosion-resistance for TiC _{1-x} N _x and Ti _{1-x} N _b C _{1-y} N _y coatings. Applied Surface Science, 2010, 256, 2876-2883.	3.1	62
7	Selective biomineralization of Co ₃ (PO ₄) ₂ -sponges triggered by His-tagged proteins: efficient heterogeneous biocatalysts for redox processes. Chemical Communications, 2015, 51, 8753-8756.	2.2	59
8	Composition and mechanical properties of AlC, AlN and AlCN thin films obtained by r.f. magnetron sputtering. Surface and Coatings Technology, 2009, 203, 1904-1907.	2.2	54
9	Enhancement of mechanical and tribological properties in AISI D3 steel substrates by using a non-isostructural CrN/AlN multilayer coating. Materials Chemistry and Physics, 2011, 125, 576-586.	2.0	52
10	Near infrared photolysis of a Ru polypyridyl complex by upconverting nanoparticles. Chemical Communications, 2014, 50, 1715.	2.2	52
11	Humic acid attenuation of silver nanoparticle toxicity by ion complexation and the formation of a Ag ₃ ⁺ coating. Journal of Hazardous Materials, 2018, 353, 173-181.	6.5	49
12	An efficient parts-per-million Fe ₂ O ₃ nanocluster/graphene oxide catalyst for Suzuki-Miyaura coupling reactions and 4-nitrophenol reduction in aqueous solution. Chemical Communications, 2017, 53, 644-646.	2.2	46
13	Graphene oxide modification with graft polymers via nitroxide mediated radical polymerization. Polymer, 2014, 55, 2347-2355.	1.8	43
14	Topographic reconstruction and mechanical analysis of atomic layer deposited Al ₂ O ₃ /TiO ₂ nanolaminates by nanoindentation. Materials and Design, 2016, 111, 584-591.	3.3	43
15	Tailoring mechanical properties and electrical conductivity of flexible niobium carbide nanocomposite thin films. RSC Advances, 2014, 4, 61355-61362.	1.7	41
16	Combined reactive/non-reactive DC magnetron sputtering of high temperature composite AlN-TiB ₂ -TiSi ₂ . Materials and Design, 2016, 94, 230-239.	3.3	40
17	Nickel Nanoparticle-Doped Paper as a Bioactive Scaffold for Targeted and Robust Immobilization of Functional Proteins. ACS Nano, 2014, 8, 6221-6231.	7.3	38
18	Nb-C Nanocomposite Films with Enhanced Biocompatibility and Mechanical Properties for Hard-Tissue Implant Applications. ACS Applied Materials & Interfaces, 2015, 7, 6351-6358.	4.0	38

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19	Enhanced Antibacterial Activity of Melt Processed Poly(propylene) Ag and Cu Nanocomposites by Argon Plasma Treatment. <i>Plasma Processes and Polymers</i> , 2014, 11, 353-365.	1.6	37
20	Hybrid ZnPc@TiO ₂ nanostructures for targeted photodynamic therapy, bioimaging and doxorubicin delivery. <i>Materials Science and Engineering C</i> , 2017, 78, 1072-1085.	3.8	37
21	Nanostructured Indium Tin Oxide Slides for Small-Molecule Profiling and Imaging Mass Spectrometry of Metabolites by Surface-Assisted Laser Desorption Ionization MS. <i>Analytical Chemistry</i> , 2015, 87, 431-440.	3.2	36
22	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. <i>CrystEngComm</i> , 2017, 19, 6089-6094.	1.3	36
23	High Electrocatalytic Response of a Mechanically Enhanced NbC Nanocomposite Electrode Toward Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30872-30879.	4.0	35
24	Robust tribo-mechanical and hot corrosion resistance of ultra-refractory Ta-Hf-C ternary alloy films. <i>Scientific Reports</i> , 2017, 7, 3080.	1.6	33
25	QD-filled micelles which combine SPECT and optical imaging with light-induced activation of a platinum(IV) prodrug for anticancer applications. <i>Chemical Communications</i> , 2013, 49, 3985.	2.2	30
26	Electrochemical Reduction of Oxygen in Aprotic Ionic Liquids Containing Metal Cations: A Case Study on the Na ⁺ /O ₂ system. <i>ChemSusChem</i> , 2017, 10, 1616-1623.	3.6	30
27	Effect of the bias voltage on the structure of nc-CrC/a-C:H coatings with high carbon content. <i>Surface and Coatings Technology</i> , 2012, 206, 2877-2883.	2.2	29
28	Exposure to air boosts CuAAC reactions catalyzed by PEG-stabilized Cu nanoparticles. <i>Chemical Communications</i> , 2017, 53, 5384-5387.	2.2	29
29	Stability of polyelectrolyte multilayers in oxidizing media: a critical issue for the development of multilayer based membranes for nanofiltration. <i>Colloid and Polymer Science</i> , 2015, 293, 381-388.	1.0	28
30	Tuning the photodynamic efficiency of TiO ₂ nanotubes against HeLa cancer cells by Fe-doping. <i>RSC Advances</i> , 2015, 5, 85139-85152.	1.7	28
31	Calcium phosphate-calcium titanate composite coatings for orthopedic applications. <i>Ceramics International</i> , 2016, 42, 10322-10331.	2.3	28
32	The Role of the Electrode Surface in Na ⁺ /Air Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO ₂ . <i>Advanced Energy Materials</i> , 2018, 8, 1701581.	10.2	28
33	Potential of niobium-based thin films as a protective and osteogenic coating for dental implants: The role of the nonmetal elements. <i>Materials Science and Engineering C</i> , 2019, 96, 166-175.	3.8	26
34	Effect of negative bias voltage on mechanical and electrochemical nature in Ti ⁺ /W ⁺ /N coatings. <i>Journal of Materials Science</i> , 2011, 46, 1244-1252.	1.7	23
35	Towards high durable lithium ion batteries with waterborne LiFePO ₄ electrodes. <i>Electrochimica Acta</i> , 2016, 215, 238-246.	2.6	21
36	Enhancement of surface mechanical properties by using TiN[BCN/BN] _n /c-BN multilayer system. <i>Applied Surface Science</i> , 2010, 257, 1098-1104.	3.1	20

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37	Influence of the negative R.F. bias voltage on the structural, mechanical and electrical properties of Hf-C-N coatings. <i>Surface and Coatings Technology</i> , 2016, 286, 251-255.	2.2	20
38	Redox synthesis and high catalytic efficiency of transition-metal nanoparticle-graphene oxide nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21947-21954.	5.2	20
39	One-Step Synthesis of Mesoporous Silica Thin Films Containing Available COOH Groups. <i>ACS Omega</i> , 2017, 2, 4548-4555.	1.6	20
40	Influence of ZnO/graphene nanolaminate periodicity on their structural and mechanical properties. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1487-1493.	5.6	20
41	Imidazole-Grafted Nanogels for the Fabrication of Organic-Inorganic Protein Hybrids. <i>Advanced Functional Materials</i> , 2018, 28, 1803115.	7.8	20
42	Improving the physicochemical surface properties on AISI D3 steel coated with Ti-W-N. <i>Surface and Coatings Technology</i> , 2011, 205, 2947-2953.	2.2	19
43	RhAg/rGO nanocatalyst: ligand-controlled synthesis and superior catalytic performances for the reduction of 4-nitrophenol. <i>Journal of Materials Science</i> , 2017, 52, 9465-9476.	1.7	19
44	PEGylated carbon black as lubricant nanoadditive with enhanced dispersion stability and tribological performance. <i>Tribology International</i> , 2019, 137, 228-235.	3.0	19
45	Synthesis and Catalytic Activity of Gold Nanoparticles Supported on Dendrimeric Nanocellulose Hybrids. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3186-3192.	1.2	18
46	Electrostatic Assembly of Functional and Macromolecular Ferricinium Chloride-Stabilized Gold Nanoparticles. <i>Inorganic Chemistry</i> , 2017, 56, 2784-2791.	1.9	17
47	Nanoscale Effects of Radiation (UV, X-ray, and $\hat{1}^3$) on Calcite Surfaces: Implications for its Mechanical and Physico-Chemical Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13357-13369.	1.5	17
48	Effect of nitrogen flow ratio on microstructure, mechanical and tribological properties of TiWSiNx thin film deposited by magnetron co-sputtering. <i>Applied Surface Science</i> , 2018, 456, 445-456.	3.1	17
49	Acetate-Induced Disassembly of Spherical Iron Oxide Nanoparticle Clusters into Monodispersed Core-Shell Structures upon Nanoemulsion Fusion. <i>Langmuir</i> , 2017, 33, 10351-10365.	1.6	16
50	High Electrocatalytic Response of Ultra-refractory Ternary Alloys of Ta-Hf-C Carbide toward Hydrogen Evolution Reaction in Acidic Media. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25433-25440.	1.5	16
51	Metal Nanoparticle Growth within Clay-Polymer Nacre-Inspired Materials for Improved Catalysis and Plasmonic Detection in Complex Biofluids. <i>Langmuir</i> , 2017, 33, 8774-8783.	1.6	15
52	Ultra low nanowear in novel chromium/amorphous chromium carbide nanocomposite films. <i>Applied Surface Science</i> , 2017, 420, 707-713.	3.1	15
53	Effect of porous silicon substrate on structural, mechanical and optical properties of MOCVD and ALD ruthenium oxide nanolayers. <i>Applied Surface Science</i> , 2019, 471, 686-693.	3.1	15
54	Screen-printed carbon electrodes doped with TiO ₂ -Au nanocomposites with improved electrocatalytic performance. <i>Materials Today Communications</i> , 2017, 11, 11-17.	0.9	14

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55	Cathodic electrochemical deposition of CuI from room temperature ionic liquid-based electrolytes. <i>Electrochemistry Communications</i> , 2015, 59, 20-23.	2.3	13
56	Synthesis, structure, EPR studies and up-conversion luminescence of ZnO:Er ³⁺ Yb ³⁺ @Gd ₂ O ₃ nanostructures. <i>RSC Advances</i> , 2016, 6, 89305-89312.	1.7	13
57	Nanostructured and Selective Filter To Improve Detection of Arsenic on Surface Plasmon Nanosensors. <i>ACS Sensors</i> , 2016, 1, 725-731.	4.0	12
58	Influence of the Al content on the in vitro bioactivity and biocompatibility of PVD Ti _{1-x} Al _x N coatings for orthopaedic applications. <i>RSC Advances</i> , 2016, 6, 60756-60764.	1.7	12
59	Thin Films with Checkerboard-Ordered Oxy. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
60	Improvement of the electrochemical behavior of steel surfaces using a TiN[BCN/BN] _n /c-BN multilayer system. <i>Diamond and Related Materials</i> , 2011, 20, 588-595.	1.8	11
61	Layered titanates with fibrous nanotopographic features as reservoir for bioactive ions to enhance osteogenesis. <i>Applied Surface Science</i> , 2018, 436, 653-661.	3.1	11
62	Copper nanoparticles synthesis in hybrid mesoporous thin films: Controlling oxidation state and catalytic performance through pore chemistry. <i>Applied Surface Science</i> , 2019, 471, 862-868.	3.1	11
63	Optical and semiconductive properties of binary and ternary thin films from the Nb-Ti-O system. <i>Results in Physics</i> , 2018, 9, 328-336.	2.0	10
64	Control of the bias voltage in d.c. PVD processes on insulator substrates. <i>Vacuum</i> , 2009, 83, 1287-1290.	1.6	9
65	The effect of top-layer chemistry on the formation of supported lipid bilayers on polyelectrolyte multilayers: primary versus quaternary amines. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32396-32405.	1.3	9
66	Enhancement of the Pitting Corrosion Resistance of AISI 316LVM Steel with Ta-Hf-C/Au Bilayers for Biomedical Applications. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-10.	1.5	9
67	Crystalline domains in epitaxial Y(Ni _{0.5} Mn _{0.5})O ₃ thin films grown by PLD on different STO substrates. <i>Applied Surface Science</i> , 2015, 324, 114-122.	3.1	8
68	Optical Properties Dependence with Gas Pressure in AlN Films Deposited by Pulsed Laser Ablation. <i>Journal of Physics: Conference Series</i> , 2011, 274, 012119.	0.3	7
69	Dielectric characterization of multiferroic magnetoelectric double-perovskite Y(Ni _{0.5} Mn _{0.5})O ₃ thin films. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	7
70	Influence of Si-addition on wear and oxidation resistance of TiWSi _x N thin films. <i>Ceramics International</i> , 2019, 45, 17363-17375.	2.3	7
71	Strontium confinement in polyacrylic acid brushes: a soft nanoarchitectonics approach for the design of titania coatings with enhanced osseointegration. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 421-430.	1.7	7
72	Mechanical and tribological characterization of CN _x films deposited by d.c. magnetron sputtering. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4267-4274.	0.8	6

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73	Atomic aluminum content (x) effect on fretting-corrosion of Ti ¹ Al N coatings for orthopedic applications. <i>Wear</i> , 2016, 362-363, 87-96.	1.5	6
74	Second Harmonic Generation Response in Thermally reconstructed Multiferroic $\text{Gd}_2(\text{MoO}_4)_3$ Thin Films. <i>Scientific Reports</i> , 2017, 7, 11800.	1.6	6
75	Exploring the wetting properties of diblock copolymer brushes with a hydrophobic block of poly(1H,1H,2H,2H-Perfluorodecyl acrylate)-(PPFDA) and a Thermoresponsive block of poly(N-isopropylacrylamide)-(PNiPAM) synthesized by RAFT polymerization. <i>Nano Structures Nano Objects</i> , 2018, 16, 412-419.	1.9	6
76	The "Grafting" of Well-Defined Polystyrene on Graphene Oxide via Nitroxide-Mediated Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2099-2106.	1.1	5
77	Orientation dependent Ti diffusion in Y ₂ NbO ₇ /STO thin films deposited by pulsed laser deposition. <i>Applied Surface Science</i> , 2016, 387, 864-868.	3.1	5
78	Characterization of the Micro-Abrasive Wear in Coatings of TaC-HfC/Au for Biomedical Implants. <i>Materials</i> , 2017, 10, 842.	1.3	4
79	Study of nanostructured ultra-refractory Tantalum-Hafnium-Carbide electrodes with wide electrochemical stability window. <i>Chemical Engineering Journal</i> , 2021, 415, 128987.	6.6	4
80	Insights and optimization of the structural and mechanical properties of Ti ₃ SiN coatings using the Taguchi method. <i>Applied Surface Science</i> , 2021, 558, 149877.	3.1	4
81	Stabilization of complex orthorhombic o-Cr ₃ C ₂ thin films under high energetic growth conditions: Experiments and calculations. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156373.	2.8	3
82	Study of the Impact of Polyanions on the Formation of Lipid Bilayers on Top of Polyelectrolyte Multilayers with Poly(allylamine hydrochloride) as the Top Layer. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1158-1167.	1.2	2
83	Cobalt oxide as a selective co-catalyst for water oxidation in the presence of an organic dye. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1771-1777.	1.6	2
84	Humic acid: A natural attenuator of toxicity of silver nanoparticles in zebrafish embryos. <i>Toxicology Letters</i> , 2015, 238, S205.	0.4	0