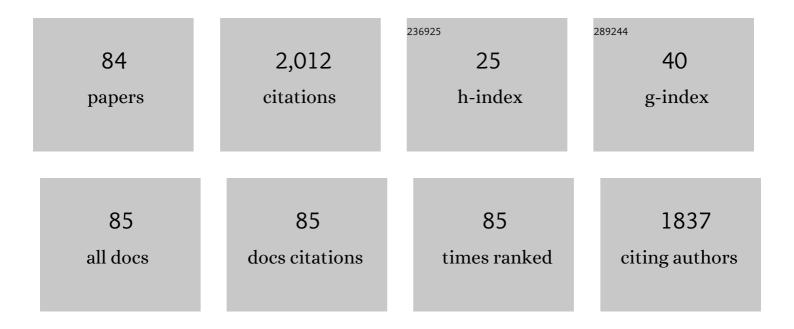
Xiaoying Li

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/693230/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Low temperature plasma carburising of austenitic stainless steels for improved wear and corrosion resistance. Surface Engineering, 1999, 15, 49-54.	2.2	163
2	Surface characterisation of DC plasma electrolytic oxidation treated 6082 aluminium alloy: Effect of current density and electrolyte concentration. Surface and Coatings Technology, 2010, 205, 1679-1688.	4.8	156
3	Towards long-lasting antibacterial stainless steel surfaces by combining double glow plasma silvering with active screen plasma nitriding. Acta Biomaterialia, 2011, 7, 447-457.	8.3	91
4	Tribological properties and wear mechanism of sputtered C/Cr coating. Surface and Coatings Technology, 2001, 142-144, 85-93.	4.8	79
5	In-situ synthesis of TiC/Ti composite coating by high frequency induction cladding. Journal of Alloys and Compounds, 2017, 701, 244-255.	5.5	73
6	Tungsten coatings deposited on CFC tiles by the combined magnetron sputtering and ion implantation technique. Physica Scripta, 2007, T128, 171-174.	2.5	65
7	Active screen plasma nitriding of 316 stainless steel for the application of bipolar plates in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 21470-21479.	7.1	56
8	Formation and microstructural characterisation of S-phase layers in Ni-free austenitic stainless steels by low-temperature plasma surface alloying. Surface and Coatings Technology, 2009, 204, 330-335.	4.8	48
9	Effects of mechanical properties and layer structure on the cyclic dynamic loading of TiN-based coatings. Surface and Coatings Technology, 2011, 206, 522-529.	4.8	44
10	Surface modification of a medical grade Co râ€Mo alloy by low-temperature plasma surface alloying with nitrogen and carbon. Surface and Coatings Technology, 2013, 232, 906-911.	4.8	43
11	Effect of pulse frequency on the one-step preparation of superhydrophobic surface by pulse electrodeposition. Applied Surface Science, 2018, 458, 603-611.	6.1	43
12	Fabrication and characterisation of electro-brush plated nickel-graphene oxide nano-composite coatings. Thin Solid Films, 2017, 644, 106-114.	1.8	40
13	Surface modification of 316 stainless steel with platinum for the application of bipolar plates in high performance proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2017, 42, 2338-2348.	7.1	38
14	Towards a deeper understanding of the formation of friction-induced hillocks on monocrystalline silicon. Journal Physics D: Applied Physics, 2012, 45, 145301.	2.8	37
15	Active screen plasma surface co-alloying of 316 austenitic stainless steel with both nitrogen and niobium for the application of bipolar plates in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2015, 40, 10281-10292.	7.1	36
16	Nitrogen mass transfer and surface layer formation during the active screen plasma nitriding of austenitic stainless steels. Vacuum, 2018, 148, 224-229.	3.5	36
17	Zirconium carbonitride films deposited by combined magnetron sputtering and ion implantation (CMSII). Surface and Coatings Technology, 2010, 204, 1889-1892.	4.8	35
18	Influence of current density and electrolyte concentration on DC PEO titania coatings. Surface Engineering, 2014, 30, 102-108.	2.2	35

#	Article	IF	CITATIONS
19	Active screen plasma surface co-alloying treatments of 316 stainless steel with nitrogen and silver for fuel cell bipolar plates. Surface and Coatings Technology, 2015, 283, 122-128.	4.8	35
20	Experimental investigations on hot forming of AA6082 using advanced plasma nitrocarburised and CAPVD WC: C coated tools. Journal of Materials Processing Technology, 2017, 240, 190-199.	6.3	34
21	Development of advanced duplex surface systems by combining CrAlN multilayer coatings with plasma nitrided steel substrates. Surface and Coatings Technology, 2013, 236, 2-7.	4.8	33
22	Plasma-nitriding and characterization of FeAl40 iron aluminide. Acta Materialia, 2015, 86, 341-351.	7.9	32
23	Reduced friction and wear of electro-brush plated nickel composite coatings reinforced by graphene oxide. Wear, 2019, 426-427, 228-238.	3.1	29
24	Plasma-enabled synthesis and modification of advanced materials for electrochemical energy storage. Energy Storage Materials, 2022, 50, 161-185.	18.0	28
25	Fabrication mechanism of friction-induced selective etching on Si(100) surface. Nanoscale Research Letters, 2012, 7, 152.	5.7	27
26	Surface microstructure and antibacterial property of an active-screen plasma alloyed austenitic stainless steel surface with Cu and N. Biomedical Materials (Bristol), 2010, 5, 054105.	3.3	26
27	The effect of active screen plasma treatment conditions on the growth and performance of Pt nanowire catalyst layer in DMFCs. International Journal of Hydrogen Energy, 2016, 41, 7622-7630.	7.1	26
28	Effect of tensile stress on the formation of S-phase during low-temperature plasma carburizing of 316L foil. Acta Materialia, 2011, 59, 5765-5774.	7.9	25
29	Tribocorrosion behavior of S-phase surface engineered medical grade Co–Cr alloy. Wear, 2013, 302, 1615-1623.	3.1	24
30	Carbon Nanofibers Functionalized with Active Screen Plasma-Deposited Metal Nanoparticles for Electrical Energy Storage Devices. ACS Applied Materials & Interfaces, 2017, 9, 23195-23201.	8.0	24
31	Sliding friction and wear behaviour of Titanium-Zirconium-Molybdenum (TZM) alloy against Al2O3 and Si3N4 balls under several environments and temperatures. Tribology International, 2017, 110, 348-357.	5.9	24
32	Combat molten aluminum corrosion of AISI H13 steel by low-temperature liquid nitrocarburizing. Journal of Alloys and Compounds, 2019, 776, 702-711.	5.5	23
33	Evaluation of the sliding wear and corrosion performance of triode-plasma nitrided Fe-17Cr-20Mn-0.5N high-manganese and Fe-19Cr-35Ni-1.2Si high-nickel austenitic stainless steels. Surface and Coatings Technology, 2021, 409, 126890.	4.8	23
34	CrN-based wear resistant hard coatings for machining and forming tools. Journal Physics D: Applied Physics, 2009, 42, 104001.	2.8	22
35	Microstructural characterisation of carbon doped CrAlTiN nanoscale multilayer coatings. Surface and Coatings Technology, 2011, 205, 3251-3259.	4.8	20
36	Investigation of surface modifications for combating the molten aluminum corrosion of AISI H13 steel. Corrosion Science, 2020, 174, 108836.	6.6	20

#	Article	IF	CITATIONS
37	Plasma Surface Functionalization of Carbon Nanofibres with Silver, Palladium and Platinum Nanoparticles for Cost-Effective and High-Performance Supercapacitors. Micromachines, 2019, 10, 2.	2.9	19
38	Friction-induced nanofabrication method to produce protrusive nanostructures on quartz. Nanoscale Research Letters, 2011, 6, 310.	5.7	18
39	A study of TiMoN nano-multilayer coatings deposited by CFUBMSIP using DC and HIPIMS power. Applied Surface Science, 2012, 258, 2062-2067.	6.1	18
40	Enhanced properties of PANâ€derived carbon fibres and resulting composites by active screen plasma surface functionalisation. Plasma Processes and Polymers, 2020, 17, 1900252.	3.0	18
41	Maskless and low-destructive nanofabrication on quartz by friction-induced selective etching. Nanoscale Research Letters, 2013, 8, 140.	5.7	16
42	Viscoelastic response of carbon fibre reinforced polymer during push-out tests. Composites Part A: Applied Science and Manufacturing, 2018, 112, 178-185.	7.6	16
43	Active-screen plasma multi-functionalization of graphene oxide for supercapacitor application. Journal of Materials Science, 2021, 56, 3296-3311.	3.7	14
44	Development of surfaces with antibacterial durability through combined S phase plasma hardening and athermal femtosecond laser texturing. Applied Surface Science, 2021, 565, 150594.	6.1	14
45	Design and characterisation of an advanced duplex system based on carbon S-phase case and GiC coatings for 316LVM austenitic stainless steel. Surface and Coatings Technology, 2009, 203, 1273-1280.	4.8	13
46	Design and characterisation of a new duplex surface system based on S-phase hardening and carbon-based coating for ASTM F1537 Co–Cr–Mo alloy. Applied Surface Science, 2014, 292, 336-344.	6.1	13
47	A Rapid One-Step Process for Fabrication of Biomimetic Superhydrophobic Surfaces by Pulse Electrodeposition. Materials, 2017, 10, 1229.	2.9	13
48	Revealing silicon crystal defects by conductive atomic force microscope. Applied Physics Letters, 2018, 113, .	3.3	13
49	Improving the Tribological Properties and Biocompatibility of Zr-Based Bulk Metallic Glass for Potential Biomedical Applications. Materials, 2020, 13, 1960.	2.9	13
50	Mechanical performance of friction-induced protrusive nanostructures on monocrystalline silicon and quartz. Micro and Nano Letters, 2012, 7, 1270-1273.	1.3	12
51	Improving tribological and anti-bacterial properties of titanium external fixation pins through surface ceramic conversion. Journal of Materials Science: Materials in Medicine, 2017, 28, 5.	3.6	12
52	Tribology and hot forming performance of self-lubricious NC/NiBN and NC/WC:C hybrid composite coatings for hot forming die. Journal of Materials Processing Technology, 2018, 252, 183-190.	6.3	12
53	Study on the carbon nanotubes reinforced nanocomposite coatings. Diamond and Related Materials, 2019, 91, 247-254.	3.9	12
54	Characterization of Hot-Steam Oxidation Tested Chromosiliconized Heat-Resistant Austenitic Stainless Steel. Materials Transactions, 2012, 53, 1090-1093.	1.2	12

#	Article	IF	CITATIONS
55	A study on the effect of ultrashort pulsed laser texturing on the microstructure and properties of metastable S phase layer formed on AISI 316L surfaces. Applied Surface Science, 2020, 511, 145557.	6.1	11
56	The generation of wearâ€resistant antimicrobial stainless steel surfaces by active screen plasma alloying with N and nanocrystalline Ag. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 185-193.	3.4	10
57	Combating the Tribo-Corrosion of LDX2404 Lean Duplex Stainless Steel by Low Temperature Plasma Nitriding. Lubricants, 2018, 6, 93.	2.9	10
58	The influence of carbon content on the characteristics of V–C–N coatings deposited by combined magnetron sputtering and ion implantation (CMSII). Surface and Coatings Technology, 2010, 204, 2006-2009.	4.8	9
59	Evaluation of the creep behaviour of the carbon fibre in an unidirectional pultruded reinforced composite using nano-indentation technique. Polymer Testing, 2019, 80, 106091.	4.8	9
60	Comparative Physical–Mechanical Properties Assessment of Tailored Surface-Treated Carbon Fibres. Materials, 2020, 13, 3136.	2.9	9
61	A novel hybrid method combining ASP with PECVD for in - situ low temperature synthesis of vertically aligned carbon nanotube films. Diamond and Related Materials, 2017, 77, 16-24.	3.9	8
62	Response of a molybdenum alloy to plasma nitriding. International Journal of Refractory Metals and Hard Materials, 2018, 72, 388-395.	3.8	8
63	Synthesis and characterization of W reinforced carbon coatings produced by Combined Magnetron Sputtering and Ion Implantation technique. Thin Solid Films, 2011, 519, 4045-4048.	1.8	7
64	Dry Sliding Wear of Active Screen Plasma Carburised Austenitic Stainless Steel. Tribology Letters, 2012, 45, 153-160.	2.6	7
65	Synthesis and in-vitro antibacterial properties of a functionally graded Ag impregnated composite surface. Materials Science and Engineering C, 2019, 99, 150-158.	7.3	7
66	Multistep active screen plasma co-alloying the treatment of metallic bipolar plates. Surface Engineering, 2020, 36, 539-546.	2.2	7
67	The Impact of Carbon Nanofibres on the Interfacial Properties of CFRPs Produced with Sized Carbon Fibres. Polymers, 2021, 13, 3457.	4.5	7
68	3D Printing Processability of a Thermally Conductive Compound Based on Carbon Nanofiller-Modified Thermoplastic Polyamide 12. Polymers, 2022, 14, 470.	4.5	7
69	On the oxidation resistance of superhard Ti–Si–C–N coatings. Journal of Materials Research, 2008, 23, 2420-2428.	2.6	6
70	On the thermo-mechanical stability and oxidation behavior of carbon S-phase at elevated temperature and under tensile stress. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 90-98.	5.6	6
71	The effect of applied compressive stress on the diffusion of carbon in carbon supersaturated S-phase layer. Surface and Coatings Technology, 2017, 331, 1-6.	4.8	6
72	Transmission electron microscopy microstructural characterization of Ti–Si–C–N coatings. Journal of Materials Research, 2008, 23, 198-203.	2.6	5

#	Article	IF	CITATIONS
73	Effect of μPlasma Modification on the Wettability and the Ageing Behaviour of Glass Fibre Reinforced Polyamide 6 (GFPA6). Materials, 2021, 14, 7721.	2.9	5
74	Development and characterisation of novel anti-bacterial S-phase based coatings. Thin Solid Films, 2017, 644, 71-81.	1.8	3
75	The Effect of Modulation Ratio of Cu/Ni Multilayer Films on the Fretting Damage Behaviour of Ti-811 Titanium Alloy. Materials, 2017, 10, 585.	2.9	3
76	Synthesis and in-vitro antibacterial properties of the novel Ag wires reinforced carbon based composite coatings. Applied Surface Science, 2020, 517, 146207.	6.1	3
77	Low-Temperature Nitrocarburizing of Austenitic Stainless Steel for Combat Corrosion in H2S Environments. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4242-4256.	2.2	3
78	Self-sensing polymeric materials based on fluorescent microcapsules for the detection of microcracks. Journal of Materials Research and Technology, 2021, 16, 505-505.	5.8	3
79	Synthesis and Characterization of (C, N)-Alloyed Stainless Steel Coatings by High Energy Ion Assisted Magnetron Sputtering Deposition. Materials and Manufacturing Processes, 2010, 25, 341-344.	4.7	1
80	Novel Catalytic Ceramic Conversion Treatment of Ti6Al4V for Improved Tribological and Antibacterial Properties for Biomedical Applications. Materials, 2021, 14, 6554.	2.9	1
81	Deposition and Microstructural Characterisation of GLC Coatings on AZ31 Magnesium Alloy. Plasma Processes and Polymers, 2009, 6, S473.	3.0	0
82	Novel wear-resistant anti-bacterial stainless steel surfaces. Surface Engineering, 2018, 34, 577-587.	2.2	0
83	In situ synthesis of the one-dimensional Ag wires reinforced composites film by a novel active screen plasma process: Nanostructure and excellent adhesion resistance. Materials Letters, 2019, 242, 152-155.	2.6	0
84	Enhancement and Evaluation of Interfacial Adhesion between Active Screen Plasma Surface-Functionalised Carbon Fibres and the Epoxy Substrate. Polymers, 2022, 14, 824.	4.5	0