

Kenneth K S Lau

List of Publications by Year in descending order

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147801

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citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Bottom-Up Growth of Highly Liquid Repellent Worm-Like Surfaces on Planar Substrates. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
2	Data-Driven prediction and optimization of liquid wettability of an initiated chemical vapor deposition-produced fluoropolymer. <i>AIChE Journal</i> , 2022, 68, .	3.6	5
3	Formation and Stability of Thin Condensing Films on Structured Amphiphilic Surfaces. <i>Langmuir</i> , 2021, 37, 2683-2692.	3.5	3
4	Conformal Growth of Ultrathin Hydrophilic Coatings on Hydrophobic Surfaces Using Initiated Chemical Vapor Deposition. <i>Langmuir</i> , 2021, 37, 7751-7759.	3.5	9
5	Oxidative Chemical Vapor Deposition of Conducting Polymer Films on Nanostructured Surfaces for Piezoresistive Sensor Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2000871.	5.1	13
6	Deposition Behavior of Polyaniline on Carbon Nanofibers by Oxidative Chemical Vapor Deposition. <i>Langmuir</i> , 2020, 36, 13079-13086.	3.5	6
7	Engineering conformal nanoporous polyaniline via oxidative chemical vapor deposition and its potential application in supercapacitors. <i>Chemical Engineering Science</i> , 2019, 194, 156-164.	3.8	34
8	Suppressing Crystallinity by Nanoconfining Polymers Using Initiated Chemical Vapor Deposition. <i>Macromolecules</i> , 2019, 52, 5183-5191.	4.8	11
9	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. <i>Nature Energy</i> , 2019, 4, 484-494.	39.5	345
10	Overview of Dye-Sensitized Solar Cells. , 2019, , 1-49.		10
11	Insights Into Dye-Sensitized Solar Cells From Macroscopic-Scale First-Principles Mathematical Modeling. , 2019, , 83-119.		2
12	First-principles modeling for optimal design, operation, and integration of energy conversion and storage systems. <i>AIChE Journal</i> , 2019, 65, e16482.	3.6	13
13	Reduced cell attachment to poly(2-hydroxyethyl methacrylate)-coated ventricular catheters <i>in vitro</i>. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1268-1279.	3.4	33
14	Experimental and theoretical investigation of dye sensitized solar cells integrated with crosslinked poly(vinylpyrrolidone) polymer electrolyte using initiated chemical vapor deposition. <i>Thin Solid Films</i> , 2017, 635, 9-16.	1.8	11
15	Influence of oCVD Polyaniline Film Chemistry in Carbon-Based Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6221-6228.	3.7	22
16	Engineering Ultrathin Polyaniline in Micro/Mesoporous Carbon Supercapacitor Electrodes Using Oxidative Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601201.	3.7	66
17	Thin Film Condensation Supported on Amphiphilic Microstructures. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	9
18	Suitability of N-propanoic acid spiropyran and spirooxazines for use as sensitizing dyes in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2981-2989.	2.8	8

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19	Oxidative chemical vapor deposition of polyaniline thin films. Beilstein Journal of Nanotechnology, 2017, 8, 1266-1276.	2.8	37
20	Synthesis and integration of poly(1-vinylimidazole) polymer electrolyte in dye sensitized solar cells by initiated chemical vapor deposition. Chemical Engineering Science, 2016, 154, 136-142.	3.8	22
21	Model-Guided Design and Optimization of Polymer-Electrolyte Dye Sensitized Solar Cells. ECS Meeting Abstracts, 2016, , .	0.0	0
22	Viable Approach for Forming Uniform Polymer Nanocomposites with Ultrahigh Filler Loading. ECS Meeting Abstracts, 2016, , .	0.0	0
23	Synthesis and Integration of Ultrathin Polyaniline Films into Carbide Derived Carbon Supercapacitors. ECS Meeting Abstracts, 2016, , .	0.0	0
24	Growth of Polyglycidol in Porous TiO ₂ Nanoparticle Networks via Initiated Chemical Vapor Deposition: Probing Polymer Confinement Under High Nanoparticle Loading. Advanced Materials Interfaces, 2015, 2, 1500341.	3.7	8
25	Kinetic analysis of the initiated chemical vapor deposition of poly(vinylpyrrolidone) and poly(4-vinylpyridine). Thin Solid Films, 2015, 595, 244-250.	1.8	15
26	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. Nature Communications, 2015, 6, 6735.	12.8	71
27	Effects of polymer chemistry on polymer-electrolyte dye sensitized solar cell performance: A theoretical and experimental investigation. Journal of Power Sources, 2015, 274, 156-164.	7.8	25
28	Electrical Conductivity and Stability of Oxidative Chemical Vapor Deposition Copolymer Thin Films of Thiophene and Pyrrole. Nanoscience and Nanotechnology Letters, 2015, 7, 50-55.	0.4	8
29	Photochromic dye-sensitized solar cells. AIMS Materials Science, 2015, 2, 503-509.	1.4	14
30	Theoretical and Experimental Study of a Dye-Sensitized Solar Cell. Industrial & Engineering Chemistry Research, 2014, 53, 5234-5247.	3.7	27
31	Enhanced Charge Storage of Ultrathin Polythiophene Films within Porous Nanostructures. ACS Nano, 2014, 8, 5413-5422.	14.6	88
32	Full-Field Dynamic Characterization of Superhydrophobic Condensation on Biotemplated Nanostructured Surfaces. Langmuir, 2014, 30, 7556-7566.	3.5	58
33	Thickness-Dependent Crossover from Charge- to Strain-Mediated Magnetoelectric Coupling in Ferromagnetic/Piezoelectric Oxide Heterostructures. ACS Nano, 2014, 8, 894-903.	14.6	61
34	Carbon Nanotube-Directed Polytetrafluoroethylene Crystal Growth via Initiated Chemical Vapor Deposition. Macromolecular Rapid Communications, 2013, 34, 251-256.	3.9	34
35	Electric Field-Induced, Reversible Lotus-to-Rose Transition in Nanohybrid Shish Kebab Paper with Hierarchical Roughness. ACS Applied Materials & Interfaces, 2013, 5, 12089-12098.	8.0	35
36	Graft Polymerization of Anti-Fouling PEO Surfaces by Liquid-Free Initiated Chemical Vapor Deposition. Macromolecules, 2012, 45, 6915-6922.	4.8	32

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37	Microencapsulation of a Crop Protection Compound by Initiated Chemical Vapor Deposition. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1375-1380.	3.9	16
38	Chemical Vapor Deposition Synthesis of Tunable Unsubstituted Polythiophene. <i>Langmuir</i> , 2011, 27, 15223-15229.	3.5	46
39	Pore Filling of Nanostructured Electrodes in Dye Sensitized Solar Cells by Initiated Chemical Vapor Deposition. <i>Nano Letters</i> , 2011, 11, 419-423.	9.1	82
40	Initiated chemical vapor deposition of poly(2-hydroxyethyl methacrylate) hydrogels. <i>Thin Solid Films</i> , 2011, 519, 4415-4417.	1.8	11
41	Integration of polymer electrolytes in dye sensitized solar cells by initiated chemical vapor deposition. <i>Thin Solid Films</i> , 2011, 519, 4551-4554.	1.8	12
42	In Situ Synthesis and Integration of Polymer Electrolytes in Nanostructured Electrodes for Photovoltaic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	1
43	Photon to thermal response of a single patterned gold nanorod cluster under near-infrared laser irradiation. <i>Biofabrication</i> , 2011, 3, 015002.	7.1	11
44	Designing polymer surfaces via vapor deposition. <i>Materials Today</i> , 2010, 13, 26-33.	14.2	123
45	Masking of a cathepsin G cleavage site <i>in vivo</i> contributes to the proteolytic resistance of major histocompatibility complex class II molecules. <i>Immunology</i> , 2010, 130, 436-446.	4.4	13
46	Mechanical Properties of Ultrahigh Molecular Weight PHEMA Hydrogels Synthesized Using Initiated Chemical Vapor Deposition. <i>Biomacromolecules</i> , 2010, 11, 2116-2122.	5.4	53
47	Initiated CVD of Poly(2-Hydroxyethyl Methacrylate) Hydrogels: Synthesis, Characterization and <i>In Vitro</i> Biocompatibility. <i>Chemical Vapor Deposition</i> , 2009, 15, 150-155.	1.3	35
48	iCVD growth of poly(N-vinylimidazole) and poly(N-vinylimidazole-co-N-vinylpyrrolidone). <i>Thin Solid Films</i> , 2009, 517, 3539-3542.	1.8	12
49	Cancer Biomarker Discovery via Targeted Profiling of Multiclass Tumor Tissue-Derived Proteomes. <i>Clinical Proteomics</i> , 2009, 5, 163-169.	2.1	3
50	“Toxic memory” via chaperone modification is a potential mechanism for rapid mallory-denk body reinduction. <i>Hepatology</i> , 2008, 48, 931-942.	7.3	20
51	Applying HWCVD to particle coatings and modeling the deposition mechanism. <i>Thin Solid Films</i> , 2008, 516, 674-677.	1.8	7
52	Initiated chemical vapor deposition (iCVD) of copolymer thin films. <i>Thin Solid Films</i> , 2008, 516, 678-680.	1.8	27
53	All-Dry Synthesis and Coating of Methacrylic Acid Copolymers for Controlled Release. <i>Macromolecular Bioscience</i> , 2007, 7, 429-434.	4.1	73
54	Particle functionalization and encapsulation by initiated chemical vapor deposition (iCVD). <i>Surface and Coatings Technology</i> , 2007, 201, 9189-9194.	4.8	44

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55	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. Surface and Coatings Technology, 2007, 201, 9400-9405.	4.8	69
56	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): An Experimental Study. Macromolecules, 2006, 39, 3688-3694.	4.8	265
57	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): A Kinetic Model. Macromolecules, 2006, 39, 3695-3703.	4.8	161
58	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). Thin Solid Films, 2006, 501, 211-215.	1.8	40
59	The importance of interfacial design at the carbon nanotube/polymer composite interface. Journal of Applied Polymer Science, 2006, 102, 1413-1418.	2.6	58
60	Particle Surface Design using an All-Dry Encapsulation Method. Advanced Materials, 2006, 18, 1972-1977.	21.0	75
61	Fluorocarbon dielectrics via hot filament chemical vapor deposition. Journal of Fluorine Chemistry, 2003, 122, 93-96.	1.7	36
62	Superhydrophobic Carbon Nanotube Forests. Nano Letters, 2003, 3, 1701-1705.	9.1	1,527
63	Thermal Annealing of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. Journal of Physical Chemistry B, 2001, 105, 2303-2307.	2.6	22
64	Hot-wire chemical vapor deposition (HWCVD) of fluorocarbon and organosilicon thin films. Thin Solid Films, 2001, 395, 288-291.	1.8	59
65	Pulsed plasma enhanced and hot filament chemical vapor deposition of fluorocarbon films. Journal of Fluorine Chemistry, 2000, 104, 119-126.	1.7	40
66	Thermochemistry of gas phase CF ₂ reactions: A density functional theory study. Journal of Chemical Physics, 2000, 113, 4103-4108.	3.0	30
67	Variable angle spectroscopic ellipsometry of fluorocarbon films from hot filament chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2404.	2.1	35
68	Structure and Morphology of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. Chemistry of Materials, 2000, 12, 3032-3037.	6.7	103
69	Solid-State Nuclear Magnetic Resonance Spectroscopy of Low Dielectric Constant Films from Pulsed Hydrofluorocarbon Plasmas. Journal of the Electrochemical Society, 1999, 146, 2652-2658.	2.9	9
70	Title is missing!. Plasmas and Polymers, 1999, 4, 21-32.	1.5	79
71	High-Resolution ¹⁹ F MAS NMR Spectroscopy of Fluorocarbon Films from Pulsed PECVD of Hexafluoropropylene Oxide. Journal of Physical Chemistry B, 1998, 102, 5977-5984.	2.6	31
72	Pulsed Plasma Enhanced Chemical Vapor Deposition from CH ₂ F ₂ , C ₂ H ₂ F ₄ , and CHClF ₂ . Materials Research Society Symposia Proceedings, 1998, 511, 75.	0.1	18

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73	Structural Correlation Study of Pulsed Plasma-Polymerized Fluorocarbon Solids by Two-Dimensional Wide-Line Separation NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6839-6846.	2.6	26
74	Molecular orientation in mixed LB films containing photochromic molecules. <i>Thin Solid Films</i> , 1997, 307, 266-273.	1.8	12