

Kenneth K S Lau

List of Publications by Year in descending order

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74
papers

4,427
citations

147801

31
h-index

102487

66
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81
all docs

81
docs citations

81
times ranked

5138
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic Carbon Nanotube Forests. <i>Nano Letters</i> , 2003, 3, 1701-1705.	9.1	1,527
2	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
3	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): An Experimental Study. <i>Macromolecules</i> , 2006, 39, 3688-3694.	4.8	265
4	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): A Kinetic Model. <i>Macromolecules</i> , 2006, 39, 3695-3703.	4.8	161
5	Designing polymer surfaces via vapor deposition. <i>Materials Today</i> , 2010, 13, 26-33.	14.2	123
6	Structure and Morphology of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2000, 12, 3032-3037.	6.7	103
7	Enhanced Charge Storage of Ultrathin Polythiophene Films within Porous Nanostructures. <i>ACS Nano</i> , 2014, 8, 5413-5422.	14.6	88
8	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
9	Title is missing!. <i>Plasmas and Polymers</i> , 1999, 4, 21-32.	1.5	79
10	Particle Surface Design using an All-Dry Encapsulation Method. <i>Advanced Materials</i> , 2006, 18, 1972-1977.	21.0	75
11	All-Dry Synthesis and Coating of Methacrylic Acid Copolymers for Controlled Release. <i>Macromolecular Bioscience</i> , 2007, 7, 429-434.	4.1	73
12	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. <i>Nature Communications</i> , 2015, 6, 6735.	12.8	71
13	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. <i>Surface and Coatings Technology</i> , 2007, 201, 9400-9405.	4.8	69
14	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
15	Thickness-Dependent Crossover from Charge- to Strain-Mediated Magnetoelectric Coupling in Ferromagnetic/Piezoelectric Oxide Heterostructures. <i>ACS Nano</i> , 2014, 8, 894-903.	14.6	61
16	Hot-wire chemical vapor deposition (HWCVD) of fluorocarbon and organosilicon thin films. <i>Thin Solid Films</i> , 2001, 395, 288-291.	1.8	59
17	The importance of interfacial design at the carbon nanotube/polymer composite interface. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1413-1418.	2.6	58
18	Full-Field Dynamic Characterization of Superhydrophobic Condensation on Biotemplated Nanostructured Surfaces. <i>Langmuir</i> , 2014, 30, 7556-7566.	3.5	58

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19	Mechanical Properties of Ultrahigh Molecular Weight PHEMA Hydrogels Synthesized Using Initiated Chemical Vapor Deposition. <i>Biomacromolecules</i> , 2010, 11, 2116-2122.	5.4	53
20	Chemical Vapor Deposition Synthesis of Tunable Unsubstituted Polythiophene. <i>Langmuir</i> , 2011, 27, 15223-15229.	3.5	46
21	Particle functionalization and encapsulation by initiated chemical vapor deposition (iCVD). <i>Surface and Coatings Technology</i> , 2007, 201, 9189-9194.	4.8	44
22	Pulsed plasma enhanced and hot filament chemical vapor deposition of fluorocarbon films. <i>Journal of Fluorine Chemistry</i> , 2000, 104, 119-126.	1.7	40
23	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). <i>Thin Solid Films</i> , 2006, 501, 211-215.	1.8	40
24	Oxidative chemical vapor deposition of polyaniline thin films. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1266-1276.	2.8	37
25	Fluorocarbon dielectrics via hot filament chemical vapor deposition. <i>Journal of Fluorine Chemistry</i> , 2003, 122, 93-96.	1.7	36
26	Variable angle spectroscopic ellipsometry of fluorocarbon films from hot filament chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 2404.	2.1	35
27	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
28	Electric Field-Induced, Reversible Lotus-to-Rose Transition in Nanohybrid Shish Kebab Paper with Hierarchical Roughness. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12089-12098.	8.0	35
29	Carbon Nanotube-Directed Polytetrafluoroethylene Crystal Growth via Initiated Chemical Vapor Deposition. <i>Macromolecular Rapid Communications</i> , 2013, 34, 251-256.	3.9	34
30	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
31	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
32	Graft Polymerization of Anti-Fouling PEO Surfaces by Liquid-Free Initiated Chemical Vapor Deposition. <i>Macromolecules</i> , 2012, 45, 6915-6922.	4.8	32
33	High-Resolution ¹⁹ F MAS NMR Spectroscopy of Fluorocarbon Films from Pulsed PECVD of Hexafluoropropylene Oxide. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5977-5984.	2.6	31
34	Thermochemistry of gas phase CF ₂ reactions: A density functional theory study. <i>Journal of Chemical Physics</i> , 2000, 113, 4103-4108.	3.0	30
35	Initiated chemical vapor deposition (iCVD) of copolymer thin films. <i>Thin Solid Films</i> , 2008, 516, 678-680.	1.8	27
36	Theoretical and Experimental Study of a Dye-Sensitized Solar Cell. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5234-5247.	3.7	27

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37	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
38	Effects of polymer chemistry on polymer-electrolyte dye sensitized solar cell performance: A theoretical and experimental investigation. <i>Journal of Power Sources</i> , 2015, 274, 156-164.	7.8	25
39	Thermal Annealing of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2303-2307.	2.6	22
40	Synthesis and integration of poly(1-vinylimidazole) polymer electrolyte in dye sensitized solar cells by initiated chemical vapor deposition. <i>Chemical Engineering Science</i> , 2016, 154, 136-142.	3.8	22
41	Influence of oCVD Polyaniline Film Chemistry in Carbon-Based Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6221-6228.	3.7	22
42	“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
43	Pulsed Plasma Enhanced Chemical Vapor Deposition from CH ₂ F ₂ , C ₂ H ₂ F ₄ , and CHClF ₂ . <i>Materials Research Society Symposia Proceedings</i> , 1998, 511, 75.	0.1	18
44	Microencapsulation of a Crop Protection Compound by Initiated Chemical Vapor Deposition. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1375-1380.	3.9	16
45	Kinetic analysis of the initiated chemical vapor deposition of poly(vinylpyrrolidone) and poly(4-vinylpyridine). <i>Thin Solid Films</i> , 2015, 595, 244-250.	1.8	15
46	Photochromic dye-sensitized solar cells. <i>AIMS Materials Science</i> , 2015, 2, 503-509.	1.4	14
47	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
48	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
49	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
50	Molecular orientation in mixed LB films containing photochromic molecules. <i>Thin Solid Films</i> , 1997, 307, 266-273.	1.8	12
51	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
52	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
53	Initiated chemical vapor deposition of poly(2-hydroxyethyl methacrylate) hydrogels. <i>Thin Solid Films</i> , 2011, 519, 4415-4417.	1.8	11
54	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

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55	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
56	Suppressing Crystallinity by Nanoconfining Polymers Using Initiated Chemical Vapor Deposition. <i>Macromolecules</i> , 2019, 52, 5183-5191.	4.8	11
57	Overview of Dye-Sensitized Solar Cells. , 2019, , 1-49.		10
58	Solidâ€State Nuclear Magnetic Resonance Spectroscopy of Low Dielectric Constant Films from Pulsed Hydrofluorocarbon Plasmas. <i>Journal of the Electrochemical Society</i> , 1999, 146, 2652-2658.	2.9	9
59	Thin Film Condensation Supported on Ambiphilic Microstructures. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	9
60	Conformal Growth of Ultrathin Hydrophilic Coatings on Hydrophobic Surfaces Using Initiated Chemical Vapor Deposition. <i>Langmuir</i> , 2021, 37, 7751-7759.	3.5	9
61	Growth of Polyglycidol in Porous TiO ₂ Nanoparticle Networks via Initiated Chemical Vapor Deposition: Probing Polymer Confinement Under High Nanoparticle Loading. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500341.	3.7	8
62	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
63	Electrical Conductivity and Stability of Oxidative Chemical Vapor Deposition Copolymer Thin Films of Thiophene and Pyrrole. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 50-55.	0.4	8
64	Applying HWCVD to particle coatings and modeling the deposition mechanism. <i>Thin Solid Films</i> , 2008, 516, 674-677.	1.8	7
65	Deposition Behavior of Polyaniline on Carbon Nanofibers by Oxidative Chemical Vapor Deposition. <i>Langmuir</i> , 2020, 36, 13079-13086.	3.5	6
66	Oneâ€Step Bottomâ€Up Growth of Highly Liquid Repellent Wormâ€Like Surfaces on Planar Substrates. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
67	Dataâ€driven prediction and optimization of liquid wettability of an initiated chemical vapor depositionâ€produced fluoropolymer. <i>AIChE Journal</i> , 2022, 68, .	3.6	5
68	Cancer Biomarker Discovery via Targeted Profiling of Multiclass Tumor Tissue-Derived Proteomes. <i>Clinical Proteomics</i> , 2009, 5, 163-169.	2.1	3
69	Formation and Stability of Thin Condensing Films on Structured Amphiphilic Surfaces. <i>Langmuir</i> , 2021, 37, 2683-2692.	3.5	3
70	Insights Into Dye-Sensitized Solar Cells From Macroscopic-Scale First-Principles Mathematical Modeling. , 2019, , 83-119.		2
71	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
72	Model-Guided Design and Optimization of Polymer-Electrolyte Dye Sensitized Solar Cells. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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73	Viable Approach for Forming Uniform Polymer Nanocomposites with Ultrahigh Filler Loading. ECS Meeting Abstracts, 2016, , .	0.0	0
74	Synthesis and Integration of Ultrathin Polyaniline Films into Carbide Derived Carbon Supercapacitors. ECS Meeting Abstracts, 2016, , .	0.0	0