

# Vladimir Cech

## List of Publications by Year in descending order

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72  
papers

980  
citations

471061

17  
h-index

525886

27  
g-index

74  
all docs

74  
docs citations

74  
times ranked

795  
citing authors

#	ARTICLE	IF	CITATIONS
1	The glass fiber-polymer matrix interface/interphase characterized by nanoscale imaging techniques. <i>Composites Science and Technology</i> , 2013, 83, 22-26.	3.8	90
2	Plasma surface treatment and modification of glass fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002, 33, 1367-1372.	3.8	72
3	Enhanced interfacial adhesion of glass fibers by tetravinylsilane plasma modification. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 58, 84-89.	3.8	54
4	Testing of adhesives for bonding of polymer composites. <i>International Journal of Adhesion and Adhesives</i> , 2002, 22, 291-295.	1.4	44
5	The influence of surface modifications of glass on glass fiber/polyester interphase properties. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1299-1320.	1.4	39
6	Plasma-polymerized organosilicones as engineered interlayers in glass fiber/polyester composites. <i>Composite Interfaces</i> , 2007, 14, 321-334.	1.3	24
7	Physico-chemical properties of plasma-polymerized tetravinylsilane. <i>Surface and Coatings Technology</i> , 2007, 201, 5512-5517.	2.2	24
8	Elastic Modulus and Hardness of Plasma-Polymerized Organosilicones Evaluated by Nanoindentation Techniques. <i>Plasma Processes and Polymers</i> , 2015, 12, 864-881.	1.6	24
9	Engineering the interfacial adhesion in basalt/epoxy composites by plasma polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 122, 67-76.	3.8	24
10	Low temperature plasma polymerization: An effective process to enhance the basalt fibre/matrix interfacial adhesion. <i>Composites Communications</i> , 2021, 27, 100769.	3.3	24
11	Surface modification of glass fibers by oxidized plasma coatings to improve interfacial shear strength in GF/polyester composites. <i>Polymer Composites</i> , 2019, 40, E186.	2.3	23
12	XPS study of siloxane plasma polymer films. <i>Surface and Coatings Technology</i> , 2003, 174-175, 1159-1163.	2.2	22
13	Plasma-polymerized versus polycondensed thin films of vinyltriethoxysilane. <i>Thin Solid Films</i> , 2006, 502, 181-187.	0.8	22
14	Continuous surface modification of glass fibers in a roll-to-roll plasma-enhanced CVD reactor for glass fiber/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 244-253.	3.8	22
15	Mechanical and optical properties of plasma-polymerized vinyltriethoxysilane. <i>Surface and Coatings Technology</i> , 2005, 200, 468-471.	2.2	21
16	Plasma Polymer Film as a Model Interlayer for Polymer Composites. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 1148-1155.	0.6	20
17	Effects of oxygen and tetravinylsilane plasma treatments on mechanical and interfacial properties of flax yarns in thermoset matrix composites. <i>Cellulose</i> , 2020, 27, 511-530.	2.4	20
18	The critical influence of surface topography on nanoindentation measurements of a-SiC:H films. <i>Surface and Coatings Technology</i> , 2015, 261, 114-121.	2.2	18

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19	Adhesion of pp-VTES films to glass substrates and their durability in aqueous environments. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 121-125.	1.4	17
20	Oxygen and water vapor gas barrier poly(ethylene naphthalate) films by deposition of SiO <sub>x</sub> plasma polymers from mixture of tetramethoxysilane and oxygen. <i>Journal of Applied Polymer Science</i> , 2007, 104, 915-925.	1.3	17
21	RF-power-controlled young's modulus of plasma-polymerized organosilicon films. <i>Journal of Materials Science</i> , 2005, 40, 5099-5102.	1.7	16
22	Influence of Oxygen on the Chemical Structure of Plasma Polymer Films Deposited from a Mixture of Tetravinylsilane and Oxygen Gas. <i>Plasma Processes and Polymers</i> , 2007, 4, S776-S780.	1.6	16
23	Basalt fibre surface modification via plasma polymerization of tetravinylsilane/oxygen mixtures for improved interfacial adhesion with unsaturated polyester matrix. <i>Materials Chemistry and Physics</i> , 2021, 274, 125106.	2.0	16
24	Chemistry of Plasma-Polymerized Vinyltriethoxysilane Controlled by Deposition Conditions. <i>Plasma Processes and Polymers</i> , 2008, 5, 745-752.	1.6	15
25	Further Progress in Functional Interlayers with Controlled Mechanical Properties Designed for Glass Fiber/Polyester Composites. <i>Fibers</i> , 2018, 6, 58.	1.8	15
26	Single layer and multilayered films of plasma polymers analyzed by nanoindentation and spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2009, 517, 6034-6037.	0.8	14
27	Mechanical Properties of Plasma-Polymerized Tetravinylsilane Films. <i>Plasma Processes and Polymers</i> , 2011, 8, 138-146.	1.6	13
28	Functional interlayers with controlled adhesion developed for polymer composites. <i>Thin Solid Films</i> , 2018, 656, 37-43.	0.8	13
29	Correlation between mechanical, optical and chemical properties of thin films deposited by PECVD. <i>Surface and Coatings Technology</i> , 2008, 202, 5572-5575.	2.2	12
30	Determination of the bulk density of states in a-Si:H by steady-state SCLC. <i>Solid-State Electronics</i> , 1997, 41, 81-86.	0.8	11
31	Depth profile of mechanical properties of plasma-polymerized tetravinylsilane films evaluated by cyclic nanoindentation. <i>Surface and Coatings Technology</i> , 2011, 205, S470-S474.	2.2	11
32	Mechanical Properties of Individual Layers in a-SiC:H Multilayer Film. <i>Plasma Processes and Polymers</i> , 2011, 8, 1107-1115.	1.6	11
33	A Fiber-Bundle Pull-out Test for Surface-Modified Glass Fibers in GF/Polyester Composite. <i>Composite Interfaces</i> , 2011, 18, 309-322.	1.3	11
34	Effect of chemical modification on the mechanical properties of plasma-polymerized organosilicones. <i>Progress in Organic Coatings</i> , 2018, 119, 85-90.	1.9	11
35	Characteristics of SiO <sub>x</sub> -containing hard film prepared by low temperature plasma enhanced chemical vapor deposition using hexamethyldisilazane or vinyltrimethylsilane and post oxygen plasma treatment. <i>Materials Chemistry and Physics</i> , 2017, 189, 183-190.	2.0	10
36	Characterization of interlayer adhesion on single glass fibers and planar glass using the nanoscratch test technique. <i>Thin Solid Films</i> , 2017, 636, 353-358.	0.8	10

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37	Optical Properties of Oxidized Plasma-Polymerized Organosilicones and Their Correlation with Mechanical and Chemical Parameters. <i>Materials</i> , 2019, 12, 539.	1.3	10
38	Chemical depth profile of layered a-CSiO:H nanocomposites. <i>Applied Surface Science</i> , 2018, 456, 941-950.	3.1	8
39	The Adhesion of Plasma Nanocoatings Controls the Shear Properties of GF/Polyester Composite. <i>Polymers</i> , 2021, 13, 593.	2.0	8
40	Characterization of poly(methylphenylsilane) prepared by plasma polymerization. <i>Macromolecular Symposia</i> , 1999, 148, 321-332.	0.4	7
41	Modeling of the I <sup>2</sup> V characteristics in amorphous silicon n+i-n+ devices. <i>Journal of Applied Physics</i> , 2000, 88, 5374-5380.	1.1	7
42	Mechanical properties of plasma polymer film evaluated by conventional and alternative nanoindentation techniques. <i>Surface and Coatings Technology</i> , 2010, 205, S286-S289.	2.2	7
43	Multilayer and functionally gradient films of plasma polymers intended as compatible interlayers for hybrid materials. <i>Surface and Coatings Technology</i> , 2014, 254, 49-53.	2.2	7
44	Surface topography affects the nanoindentation data. <i>Thin Solid Films</i> , 2022, 745, 139105.	0.8	7
45	Time relaxation of space-charge-limited conductivity in a-Si:H. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 185-189.	1.5	6
46	Functional interlayers in multiphase materials. <i>Surface and Coatings Technology</i> , 2003, 174-175, 858-862.	2.2	6
47	Deposition of Single Plasma-Polymerized Vinyltriethoxysilane Films and their Layered Structure. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8440-8444.	0.8	6
48	Functional multilayer coatings of tetravinylsilane. <i>Surface and Coatings Technology</i> , 2008, 202, 5505-5507.	2.2	6
49	Plasma Nanocoatings Developed to Control the Shear Strength of Polymer Composites. <i>Polymers</i> , 2019, 11, 1188.	2.0	6
50	NEW PROGRESS IN COMPOSITE INTERPHASES: A USE OF PLASMA TECHNOLOGIES. , 2000, , 246-252.		6
51	Analysis of annealed thin polymer films prepared from dichloro(methyl)phenylsilane by plasma polymerization. <i>Journal of Applied Polymer Science</i> , 2001, 82, 2106-2112.	1.3	5
52	Plasma polymer films of tetravinylsilane modified by UV irradiation. <i>Surface and Coatings Technology</i> , 2010, 205, S177-S181.	2.2	5
53	Plasma Nanotechnology for Controlling Chemical and Physical Properties of Organosilicon Nanocoatings. <i>Materials Today Communications</i> , 2020, 24, 101234.	0.9	5
54	Surface-Free Energy Of Silicon-Based Plasma Polymer Films. , 0, , 333-348.		5

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55	Determination of trap concentrations and energy levels in insulators and semiconductors from steady-state space-charge-limited currents. <i>Physica Status Solidi A</i> , 1988, 106, 167-172.	1.7	4
56	Effect of RF-plasma deposition parameters on the composition and properties of organic layers deposited on glass fibers. <i>Composites Science and Technology</i> , 2009, 69, 2485-2490.	3.8	4
57	Aging of silicon-based dielectric coatings deposited by plasma polymerization. <i>Thin Solid Films</i> , 2011, 519, 2168-2171.	0.8	4
58	Basic characteristics of the a-SiOCâ <sup>†</sup> H thin films prepared by PE CVD. <i>European Physical Journal D</i> , 2004, 54, C937-C942.	0.4	3
59	Plasma polymer multilayers of organosilicones and their optical properties controlled by RF power. <i>Surface and Coatings Technology</i> , 2011, 205, S451-S454.	2.2	3
60	Self-Assembled Monolayers of Vinyltriethoxysilane and Vinyltrichlorosilane Deposited on Silicon Dioxide Surfaces. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 2543-2554.	1.4	3
61	Mechanical stability of titanium and plasma polymer nanoclusters in nanocomposite coatings. <i>Thin Solid Films</i> , 2013, 544, 593-596.	0.8	3
62	Optical properties of the crystalline silicon wafers described using the universal dispersion model. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 062907.	0.6	3
63	Characterization of a-CSi:H films prepared by PECVD in terms of adhesion. <i>Surface and Coatings Technology</i> , 2020, 385, 125375.	2.2	3
64	Nonthermal tetravinylsilane plasma used for thinâ€film deposition: Plasma chemistry controls thinâ€film chemistry. <i>Plasma Processes and Polymers</i> , 2022, 19, 2100192.	1.6	3
65	A use of the meyer-neldel rule for an evaluation of SCLC. <i>Physica Status Solidi A</i> , 1991, 127, 179-186.	1.7	1
66	Thin plasma-polymerized films of dichloro(methyl)phenylsilane. <i>European Physical Journal D</i> , 2000, 50, 356-364.	0.4	1
67	Spectroscopic ellipsometry study of plasma-polymerised vinyltriethoxysilane films. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 451-455.	1.1	1
68	Plasma Polymer Films. , 2010, , 481-527.		1
69	Microscopic Mobility as a Function of Electric Field. <i>Physica Status Solidi A</i> , 1992, 129, 223-229.	1.7	0
70	Determination of Density of Localized States in a-Si:H from the Time Relaxation of Space-Charge-Limited Conductivity. <i>Physica Status Solidi A</i> , 2001, 187, 487-491.	1.7	0
71	Burning conditions of non-thermal Ar-plasma at continuous and pulsed mode. <i>European Physical Journal D</i> , 2006, 56, B1320-B1325.	0.4	0
72	Wettability of plasma-polymerized vinyltriethoxysilane film. <i>Chemical Papers</i> , 2009, 63, .	1.0	0