

# Daniel Crespo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123  
papers

2,379  
citations

26  
h-index

45  
g-index

133  
ext. papers

2,732  
ext. citations

4.8  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
123	Analysis of the anelastic deformation of high-entropy Pd <sub>20</sub> Pt <sub>20</sub> Cu <sub>20</sub> Ni <sub>20</sub> P <sub>20</sub> metallic glass under stress relaxation and recovery. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 107, 82-91	9.1	1
122	Comprehensive insights into the thermal and mechanical effects of metallic glasses via creep. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 99, 39-47	9.1	2
121	Nanoporous Copper Ribbons Prepared by Chemical Dealloying of a Melt-Spun ZnCu Alloy. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 212-226	3.8	1
120	How relevant are molecular electronic parameters for predicting corrosion inhibition efficiency: imidazoles as corrosion inhibitors of Cu/Zr materials in NaCl solution. <i>Corrosion Science</i> , <b>2021</b> , 193, 109900	6.8	7
119	Dynamic mechanical relaxation behavior of binary metallic glasses. <i>Intermetallics</i> , <b>2021</b> , 130, 107075	3.5	
118	A model study on controlling dealloying corrosion attack by lateral modification of surfactant inhibitors. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	5
117	Study Of Mercaptobenzimidazoles As Inhibitors For Copper Corrosion: Down to the Molecular Scale. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 051504	3.9	9
116	Simplistic correlations between molecular electronic properties and inhibition efficiencies: Do they really exist?. <i>Corrosion Science</i> , <b>2021</b> , 179, 108856	6.8	36
115	Inelastic deformation of metallic glasses under dynamic cyclic loading. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113675	6.7	2
114	Effect of minor addition on dynamic mechanical relaxation in ZrCu-based metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 553, 120496	3.9	3
113	Identifying the high entropy characteristic in La-based metallic glasses. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 051905	3.4	2
112	Dynamic mechanical relaxation and thermal creep of high-entropy La <sub>30</sub> Ce <sub>30</sub> Ni <sub>10</sub> Al <sub>20</sub> Co <sub>10</sub> bulk metallic glass. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	11
111	Dynamic mechanical relaxation behavior of Zr <sub>35</sub> Hf <sub>17.5</sub> Ti <sub>5.5</sub> Al <sub>12.5</sub> Co <sub>7.5</sub> Ni <sub>12</sub> Cu <sub>10</sub> high entropy bulk metallic glass. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 83, 248-255	9.1	17
110	Stress relaxation in high-entropy Pd <sub>20</sub> Pt <sub>20</sub> Cu <sub>20</sub> Ni <sub>20</sub> P <sub>20</sub> metallic glass: Experiments, modeling and theory. <i>Mechanics of Materials</i> , <b>2021</b> , 160, 103959	3.3	1
109	Corrosion resistance of crystalline and amorphous CuZr alloys in NaCl aqueous environment and effect of corrosion inhibitors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 879, 160464	5.7	5
108	Unified perspective on structural heterogeneity of a LaCe-based metallic glass from versatile dynamic stimuli. <i>Intermetallics</i> , <b>2020</b> , 125, 106922	3.5	4
107	Relaxation of internal friction and shear viscosity in Zr <sub>57</sub> Nb <sub>5</sub> Al <sub>10</sub> Cu <sub>15.4</sub> Ni <sub>12.6</sub> metallic glass. <i>Intermetallics</i> , <b>2020</b> , 124, 106846	3.5	7

106	Link between shear modulus and enthalpy changes of Ti <sub>16</sub> Zr <sub>16</sub> Hf <sub>16</sub> Cu <sub>16</sub> Ni <sub>16</sub> Be <sub>16</sub> high entropy bulk metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 830, 154564	5.7	8
105	Dynamic Mechanical Relaxation in LaCe-Based Metallic Glasses: Influence of the Chemical Composition. <i>Metals</i> , <b>2019</b> , 9, 1013	2.3	5
104	An Experimental and Numerical Study of Repairs on Composite Substrates with Composite and Aluminum Doublers Using Riveted, Bonded, and Hybrid Joints. <i>Materials</i> , <b>2019</b> , 12,	3.5	1
103	Structural heterogeneities and mechanical behavior of amorphous alloys. <i>Progress in Materials Science</i> , <b>2019</b> , 104, 250-329	42.2	248
102	Fatigue Life Analysis of Un-repaired and Repaired Metallic Substrate Using FRANC2D. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 558-565	0.4	
101	Influence of carbon content on microstructure and properties of a steel matrix cermet. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 75, 78-84	4.1	4
100	Study of medium range reordering by plastic deformation in Cu <sub>46</sub> Zr <sub>46</sub> Al <sub>8</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 34-40	5.7	
99	Viscoelasticity of Cu- and La-based bulk metallic glasses: Interpretation based on the quasi-point defects theory. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 719, 164-170	5.3	11
98	Viscoelastic behavior of a novel aluminum metal matrix composite and comparison with pure aluminum, aluminum alloys, and a composite made of AlMgBi alloy reinforced with SiC particles. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 445-452	5.7	20
97	On the static strength of aluminium and carbon fibre aircraft lap joint repairs. <i>Composite Structures</i> , <b>2018</b> , 201, 276-290	5.3	15
96	Plastic deformation induced anisotropy in metallic glasses: A molecular dynamics study. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 102-107	5.7	7
95	Kinetics and crystallization path of a Fe-based metallic glass alloy. <i>Acta Materialia</i> , <b>2017</b> , 127, 341-350	8.4	33
94	Amorphous physics and materials: Secondary relaxation and dynamic heterogeneity in metallic glasses: A brief review. <i>Chinese Physics B</i> , <b>2017</b> , 26, 016402	1.2	40
93	Slow $\beta$ relaxation in La-based metallic glasses based on mechanical spectroscopy measurements. <i>Journal of Iron and Steel Research International</i> , <b>2017</b> , 24, 397-401	1.2	1
92	Sub-T relaxation times of the $\beta$ process in metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 471, 322-327	3.9	14
91	Comparison of fatigue crack growth of riveted and bonded aircraft lap joints made of Aluminium alloy 2024-T3 substrates – A numerical study. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 843, 012035	0.3	1
90	Physical aging effects on the dynamic relaxation behavior and mechanical properties of Cu <sub>46</sub> Zr <sub>46</sub> Al <sub>8</sub> metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 726, 195-200	5.7	8
89	Dynamic microstructural evolution of an Al <sub>70</sub> Zn <sub>10</sub> Mg <sub>10</sub> Cu alloy (7075) during continuous heating and the influence on the viscoelastic response. <i>Materials Characterization</i> , <b>2017</b> , 134, 319-328	3.9	15

88	Study on Mechanical Relaxations of 7075 (AlZnMg) and 2024 (AlCuMg) Alloys by Application of the Time-Temperature Superposition Principle. <i>Advances in Materials Science and Engineering</i> , <b>2017</b> , 2017, 1-12	1.5	7
87	Transition from stress-driven to thermally activated stress relaxation in metallic glasses. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	44
86	Phonon dispersion relation of metallic glasses. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	10
85	Relaxation dynamics of Fe <sub>55</sub> Cr <sub>10</sub> Mo <sub>14</sub> C <sub>15</sub> B <sub>6</sub> metallic glass explored by mechanical spectroscopy and calorimetry measurements. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 125, 711-719	4.1	2
84	Modeling of the Sub-T <sub>g</sub> Relaxation Spectrum of Pd <sub>42.5</sub> Ni <sub>7.5</sub> Cu <sub>30</sub> P <sub>20</sub> Metallic Glass. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 2838-44	3.4	4
83	Onset Frequency of Fatigue Effects in Pure Aluminum and 7075 (AlZnMg) and 2024 (AlCuMg) Alloys. <i>Metals</i> , <b>2016</b> , 6, 50	2.3	11
82	Characterization of mechanical relaxation in a Cu <sub>47</sub> Zr <sub>53</sub> Al metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 643, S17-S21	5.7	12
81	Mechanical Relaxation of Metallic Glasses: An Overview of Experimental Data and Theoretical Models. <i>Metals</i> , <b>2015</b> , 5, 1073-1111	2.3	45
80	Innovative NDT Technique Based on Ferrofluids for Detection of Surface Cracks. <i>Journal of Nondestructive Evaluation</i> , <b>2015</b> , 34, 1	2.1	
79	Crystallization, phase evolution and corrosion of Fe-based metallic glasses: An atomic-scale structural and chemical characterization study. <i>Acta Materialia</i> , <b>2014</b> , 71, 20-30	8.4	47
78	Role of Nb in glass formation of Fe <sub>70</sub> Cr <sub>10</sub> Mo <sub>10</sub> Cu <sub>10</sub> Nb BMGs. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 604, 157-163	5.7	26
77	Aging and structural relaxation of hyper-quenched Mg <sub>65</sub> Cu <sub>25</sub> Y <sub>10</sub> metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S9-S12	5.7	10
76	Molecular dynamics computation of the dynamical structure factor of a Lennard-Jones glass: Propagation of acoustic modes at the nm-scale. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S250-S253	5.7	0
75	Relaxation of rapidly quenched metallic glasses: Effect of the relaxation state on the slow low temperature dynamics. <i>Acta Materialia</i> , <b>2013</b> , 61, 3002-3011	8.4	45
74	Element-resolved corrosion analysis of stainless-type glass-forming steels. <i>Science</i> , <b>2013</b> , 341, 372-6	33.3	110
73	Color and dichroism of silver-stained glasses. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	15
72	Inelastic X-ray scattering in metallic glasses. <i>Intermetallics</i> , <b>2012</b> , 30, 148-153	3.5	3
71	Modeling of the Effect of Temperature, Frequency, and Phase Transformations on the Viscoelastic Properties of AA 7075-T6 and AA 2024-T3 Aluminum Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 4633-4646	2.3	14

70	Stability in air of silver and silver oxide nanoparticle shells deposited over silica spheres without using coupling agents. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 8158-64	1.3	3
69	Acoustic properties of metallic glasses in the mesoscopic regime by inelastic X-ray scattering. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S95-S98	5.7	3
68	Role of Mo in the local configuration and structure stabilization of amorphous steels, a Synchrotron X-ray diffraction and Mössbauer study. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S56-S59	5.7	2
67	Effect of temperature and frequency of dynamic loading in the viscoelastic properties of aluminium alloy 7075-T6. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 3111-3114		6
66	Communication: are metallic glasses different from other glasses? A closer look at their high frequency dynamics. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 101101	3.9	3
65	Polyamorphic transitions in Ce-based metallic glasses by synchrotron radiation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	33
64	High frequency dynamics of BMG determined by synchrotron radiation: A microscopic picture. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 495, 319-322	5.7	4
63	Fragility measurement of Pd-based metallic glass by dynamic mechanical analysis. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S215-S218	5.7	8
62	Deposition of silver nanoshell and reactivity of silver nanoparticles with surface silanols of submicrospherical silica. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3177-80	1.3	4
61	Cobalt nanocrystallites encapsulated in boron nitride shells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 162, 106-110	3.1	1
60	BiFeO <sub>3</sub> films on steel substrate by the citrate method. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2581-2585	2.2	13
59	Structural study of conventional and bulk metallic glasses during annealing. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 483, 578-581	5.7	10
58	Phase-field modelling of microstructural evolution in primary crystallization. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 483, 645-649	5.7	9
57	Mössbauer characterization of an amorphous steel with optimal Mo content. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5138-5139	3.9	1
56	Structural evolution of metallic glasses during annealing through in situ synchrotron X-ray diffraction. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5140-5142	3.9	4
55	Preparation of core-shell nanospheres of silica-silver: SiO <sub>2</sub> @Ag. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5435-5439	3.9	42
54	Microstructural characterisation and kinetics modelling of vermicular cast irons. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 1214-1221	1.5	4
53	Temporal evolution of the domain structure in a Poisson-Voronoi nucleation and growth transformation: results for one and three dimensions. <i>Physical Review E</i> , <b>2008</b> , 78, 021110	2.4	18

52	Variations in morphologies of silver nanoshells on silica spheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 330, 86-90	5.1	26
51	Single-Phase MnFe <sub>2</sub> O <sub>4</sub> Powders Obtained by the Polymerized Complex Method. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, ???-???	3.8	3
50	Stable silver colloidal dispersions using short chain polyethylene glycol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 303, 184-190	5.1	133
49	Magnetic properties of dense carbon nanospheres prepared by chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>2007</b> , 447, 295-299	2.5	9
48	Silver nanoprism coatings on optical glass substrates. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1665-1668	2.5	32
47	Key Parameters in the Production of Medieval Luster Colors and Shines. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2245-2254	3.8	26
46	Synthesis and Structural Characterization of Single-Phase BiFeO <sub>3</sub> Powders from a Polymeric Precursor. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2723-2727	3.8	89
45	Temporal evolution of the domain structure in a Poisson-Voronoi transformation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2007</b> , 2007, P06007-P06007	1.9	15
44	Metallic and nonmetallic shine in luster: An elastic ion backscattering study. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 103518	2.5	16
43	Domain-size distribution in a Poisson-Voronoi nucleation and growth transformation. <i>Physical Review E</i> , <b>2007</b> , 75, 040107	2.4	27
42	Phase-field modeling of glass crystallization: Change of the transport properties and crystallization kinetic. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1002-1004	3.9	4
41	On the validity of Avrami formalism in primary crystallization. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 054907	3.7	63
40	Magnetic properties of dense graphitic filaments formed via thermal decomposition of mesitylene in an applied electric field. <i>Carbon</i> , <b>2006</b> , 44, 2864-2867	10.4	10
39	LaNiO <sub>3</sub> nanopowder prepared by an amorphous citrate route. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 403-407	6	25
38	Recent advances in automatic demodulation of single fringe patterns <b>2006</b> , 90-97		1
37	Optical autofocus for high resolution laser photoplotting <b>2005</b> ,		1
36	Ionic-Exchange Mechanism in the Formation of Medieval Luster Decorations. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 1281-1289	3.8	58
35	Effects of Soft-Impingement and Non-random Nucleation on the Kinetics and Microstructural Development of Primary Crystallization <b>2005</b> , 126-134		

34	Size distribution evolution equations in space-competing domain growth systems. <i>Philosophical Magazine</i> , <b>2004</b> , 84, 2023-2039	1.6	7
33	Cell size distribution in random tessellations of space. <i>Physical Review E</i> , <b>2004</b> , 70, 066119	2.4	49
32	Fast algorithm for estimation of the orientation term of a general quadrature transform with application to demodulation of an n-dimensional fringe pattern. <i>Applied Optics</i> , <b>2004</b> , 43, 6139-46	1.7	5
31	Small-angle scattering curves of densely packed particulate solids obtained by nucleation and growth kinetics. <i>Journal of Applied Crystallography</i> , <b>2003</b> , 36, 836-839	3.8	
30	Microstructural implications of non-random nucleation protocols in nanocrystallized metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 317, 85-90	3.9	8
29	Crystallisation kinetics and microstructure development in metallic systems. <i>Progress in Materials Science</i> , <b>2002</b> , 47, 559-619	42.2	144
28	Non-random nucleation and the Avrami kinetics. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 107-121		23
27	Experimental measurements of generalized grating images. <i>Applied Optics</i> , <b>2002</b> , 41, 1223-8	1.7	18
26	On the equations describing the grain size distribution change for KJMA kinetics. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 88-91	3.9	8
25	Kinetic simulation of primary transformations in glassy alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 92-95	3.9	8
24	Optical encoder based on the Lau effect. <i>Optical Engineering</i> , <b>2000</b> , 39, 817	1.1	35
23	Generalized grating imaging using an extended monochromatic light source. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 1231-40	1.8	42
22	Reflection optical encoders as three-grating moiré systems. <i>Applied Optics</i> , <b>2000</b> , 39, 3805-13	1.7	14
21	Nanocrystallisation in Finemet Alloys with Different Si/B Ratios. <i>Materials Science Forum</i> , <b>1999</b> , 307, 83-88	3.4	1
20	A Method for Studying Natural Ventilation by Thermal Effects in a Tunnel Greenhouse using Laboratory-Scale Models. <i>Biosystems Engineering</i> , <b>1999</b> , 72, 93-104		18
19	Microstructure development in Kolmogorov, Johnson-Mehl, and Avrami nucleation and growth kinetics. <i>Physical Review B</i> , <b>1999</b> , 60, 3104-3112	3.3	45
18	Nanostructured precipitates: Experimental versus exact theoretical saxs profiles. <i>Scripta Materialia</i> , <b>1999</b> , 12, 649-652		1
17	Characteristic functions of nanostructured materials. <i>Scripta Materialia</i> , <b>1999</b> , 12, 879-882		

16	Microstructure Evaluation for Time Dependent Nucleation Protocols in KJMA Kinetics. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 580, 321		
15	Modeling of Non-Random Nucleation Protocols. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 580, 411		1
14	Diffusion controlled grain growth in primary crystallization: Avrami exponents revisited. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 3833-3844	1.8	95
13	AVRAMI EXPONENTS VERSUS CRYSTALLIZATION MECHANISMS <b>1998</b> ,		1
12	Correlation Functions for Nanostructures Obtained by Nucleation and Growth Kinetics. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 481, 143		
11	Refinement of Size Distributions for Primary Crystallizations. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 481, 213		
10	Microstructural evaluation of primary crystallization with diffusion-controlled grain growth. <i>Physical Review B</i> , <b>1997</b> , 55, 3435-3444	3.3	63
9	KINETICS OF MICROSTRUCTURAL DEVELOPMENT IN NANOCRYSTALLINE MATERIALS. <i>Scripta Materialia</i> , <b>1997</b> , 8, 345-357		19
8	Correlation functions in first-order phase transitions. <i>Physical Review E</i> , <b>1997</b> , 56, 2781-2792	2.4	7
7	Kinetic theory of microstructural evolution in nucleation and growth processes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 238, 160-165	5.3	15
6	Evaluation of time-dependent grain-size populations for nucleation and growth kinetics. <i>Physical Review B</i> , <b>1996</b> , 54, 3101-3109	3.3	46
5	Spiral vortices between concentric cylinders. <i>Flow, Turbulence and Combustion</i> , <b>1993</b> , 51, 55-59		15
4	Direct evidence of two different relaxation processes induced by heat treatment on Fe <sub>40</sub> Ni <sub>40</sub> B <sub>20</sub> glassy ribbons. <i>Journal of Physics F: Metal Physics</i> , <b>1988</b> , 18, 2669-2681		7
3	Geometrical effects on line shape and background in experimental Mössbauer spectra. <i>Hyperfine Interactions</i> , <b>1986</b> , 29, 1539-1542	0.8	5
2	QUBiC4plus: a cost-effective BiCMOS manufacturing technology with elite passive enhancements optimized for 'silicon-based' RF-system-in-package environment		18
1	Non-random nucleation and the Avrami kinetics		3