

# Jak hodnotit kvalitu vědeckých skupin v přírodovědných oborech

zamyšlení nad přípravou  
nadcházejícího mezinárodního  
hodnocení AV ČR



# Obsah

Hodnocení kvality:

- co to je kvalitní vědecká publikace
- je možné se na tom shodnout nezávisle
- Jaké máme příklady z minulosti

Jakou hodnotu má hodnocení:

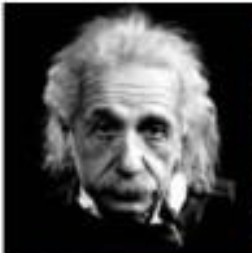
























- pro hodnocené,
  - pro hodnotitele,
  - pro zadavatele
- a nakonec
- pro nás všechny.

Hodnocení kvality:

- co to je kvalitní vědecká publikace
- je možné se na tom shodnout nezávisle

Shodneme se ?

# Jak se lidé vidí podle své role

	undergraduate	PhD student	postdoc	PI / Professor	technician
seen by undergraduate					
seen by PhD student					
seen by postdoc					
seen by PI / Professor					
seen by technician					

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<http://sotak.info/sci.jpg>

# Jak by hodnocení mohlo vypadat



# Z pohledu hodnoceného

Evaluace formou individuálně

verze 1. 8.11.2013

**Hlavní text** bude generován informačním systémem pro hodnocení (zde mu odpovídá Word styl pojmenovaný „afedocstyle“).  
**Vstup** hodnoceného, jako očekávaný jen v kolonkách zvýrazněných žlutě a barvou.

Person and affiliation

Person and affiliation  
 Name:   
 e-mail:   
 Institution:

Member of the team:

Name	Team web page	Role
<input type="checkbox"/> Member <input type="checkbox"/> group leader <input type="checkbox"/> team leader	<input type="text"/>	<input type="text"/>

Participation in other teams:

Team	Role
<input type="text"/>	<input type="text"/>

Zapojení do (mů) přebíhajících týmů AVČR (např. GPRN)

Code	affiliation	web page	Role
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Web sites:

Code	url
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
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Evaluace formou individuálně

verze 1. 8.11.2013

Úspěchy (2010-2014)

International projects

Code	Provider	Name	Duration
M100101216	AV ČR	Study of the time of crystalline Si on structured substrates with nanoscale resolution	2012-2015
M100101217	AV ČR	Nanostuctures of carbon and silicon	2012-2015
240526	FPT EU	Improved photoactive modules of polycrystalline silicon on glass	2009-2012
TS10081	FPT co-financing project: MŠMT	ZLEPŠENÉ FOTOVOLTAICKÉ MODULY ZALOŽENÉ NA POLYKRISTALICKÉM KŘEMÍKU NA SKLE	2009-2012
KONTAKT MŠM 081012	Ministry of Education, Youth and Sports	Study of nanostructured heterogeneous materials using scanning probe microscopy	2010-2011

Czech projects

Code	Provider	Name	Duration
202021041	GAČR	Physics of nanostructures	2009-2012
14C 06040	MŠMT	Structures for nanobiology and nanoelectronics	2006-2011

Evaluace formou individuálně

verze 1. 8.11.2013

Code	Name	Description	Project Manager	Start	End
<input type="checkbox"/>	M. Kolář, J. Pajlar, J. Vlasák, J. Škadek, J. Kocák	Low-temperature epitaxial growth of GaN on SiC substrates by metal-organic chemical vapor deposition	J. Vlasák, Czech Republic, 2012(01)2012-2012	Nov	10.02.2012(01)2012
<input type="checkbox"/>	M. Kolář, M. Kolář, J. Vlasák, J. Pajlar, J. Kocák	Light-emitting diodes on SiC substrates prepared by metal-organic chemical vapor deposition	J. Vlasák, Czech Republic, 2012(01)2012-2012	Nov	10.02.2012(01)2012
<input type="checkbox"/>	M. Kolář, J. Vlasák, J. Škadek, J. Pajlar, J. Kocák	Structural and electrical properties of GaN epilayers on SiC substrates	J. Vlasák, Czech Republic, 2012(01)2012-2012	Nov	10.02.2012(01)2012
<input type="checkbox"/>	J. Vlasák, J. Pajlar, M. Kolář, J. Škadek, J. Kocák	Structural and electrical properties of GaN epilayers on SiC substrates	J. Vlasák, Czech Republic, 2012(01)2012-2012	Nov	10.02.2012(01)2012
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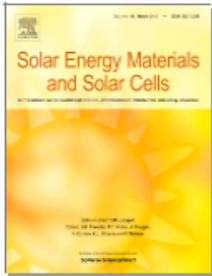
Surely you  
were aware  
when you  
accepted the  
position,  
Professor,  
that it was  
publish or  
perish.

Z pohledu hodnotitele



# Link to article usage

## Article Usage Dashboard



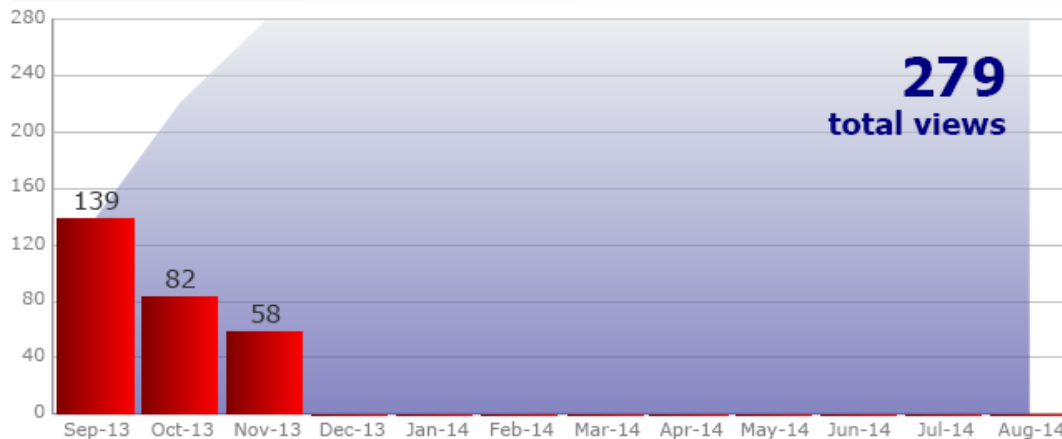
### Microscopic measurements of variations in local (photo)electronic properties in nanostructured solar cells

Fejfar, A.; Hyvl, M.; Ledinsky, M.; Vetushka, A.; Stuchlik, J.; Kocka, J.; Misra, S.; O'Donnell, B.; Foldyna, M.; Yu, L.; Roca i Cabarrocas, P.

Solar Energy Materials and Solar Cells, Volume(s) 119, 04-Sep-2013, Pages 228-234

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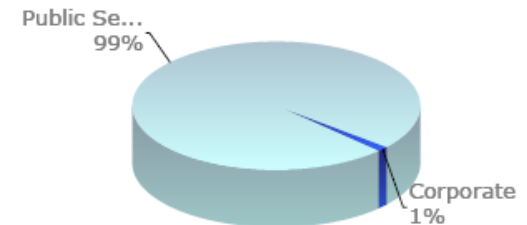
## Trend and cumulative views



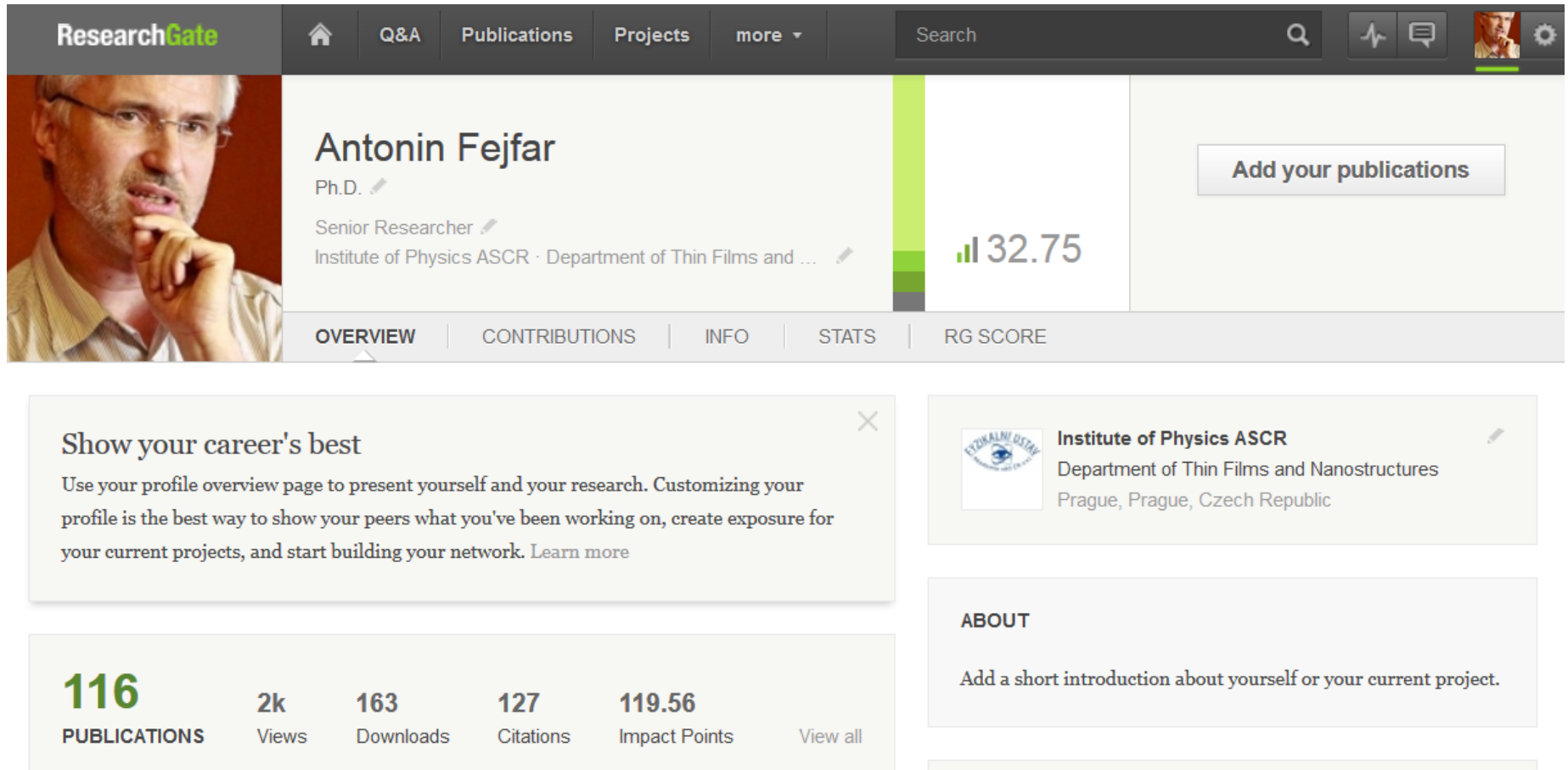
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Top countries	Rank	Views	Pct
China	1	53	19%
Germany	2	32	11%
United States	3	26	9%
France	4	25	9%
Czech Republic	5	20	7%

## Corporate versus Public Sector



# Link to author's page



The image shows a ResearchGate profile for Antonin Fejfar. The profile includes a navigation bar with 'ResearchGate' and links for 'Q&A', 'Publications', 'Projects', and 'more'. A search bar and utility icons are on the right. The profile header features a photo of Antonin Fejfar, his name, 'Ph.D.', 'Senior Researcher', and affiliation 'Institute of Physics ASCR · Department of Thin Films and ...'. A green bar indicates an RG Score of 32.75. A button 'Add your publications' is visible. Below the header are tabs for 'OVERVIEW', 'CONTRIBUTIONS', 'INFO', 'STATS', and 'RG SCORE'. A callout box titled 'Show your career's best' provides advice on profile customization. A statistics bar shows 116 publications, 2k views, 163 downloads, 127 citations, and 119.56 impact points. A section titled 'ABOUT' prompts the user to add a short introduction. The footer of the profile area shows the 'Institute of Physics ASCR' logo and name, along with the department and location: 'Department of Thin Films and Nanostructures, Prague, Prague, Czech Republic'.

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Ph.D. Senior Researcher

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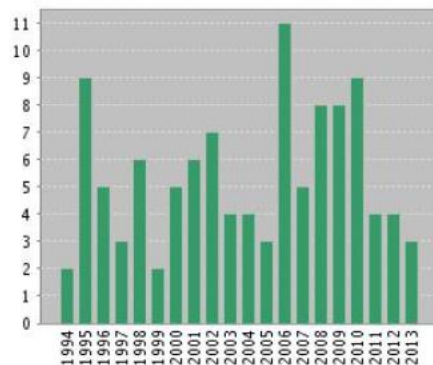
1. Title: **Microscopic measurements of variations in local (photo)electronic properties in nanostructured solar cells**  
 Author(s): Fejfar, Antonin; Hyvl, Matej; Ledinsky, Martin; et al.  
 Source: SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 119 Special Issue: SI Pages: 228-234 DOI: 10.1016/j.solmat.2013.07.042  
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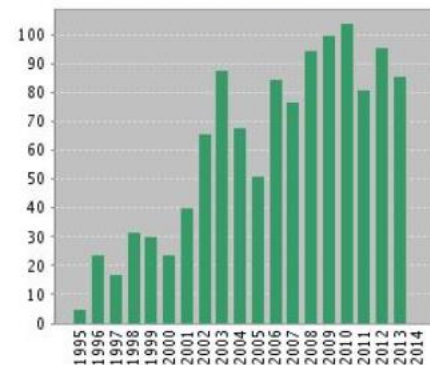
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h-index [?]: 19

Z pohledu hodnotící komise

# Z pohledu zadavatele





# Hodnocení a vedení

- Hodnocení není samovolné, ani dobrovolné, provádí je **šéfové**



# Why it has become more difficult to predict Nobel Prize winners: a bibliometric analysis of Nominees and Winners of the Chemistry and Physics Prizes (1901-2007)

Yves Gingras and Matthew L. Wallace

## Conclusion:

Our comprehensive bibliometric analysis of the profile of Nobel prizewinners in chemistry and physics from 1901 to 2007, showed that ...

... it has become nearly impossible to pick up only three winners using bibliometric tools.

[arXiv.org](#) > [physics](#) > arXiv:0808.2517

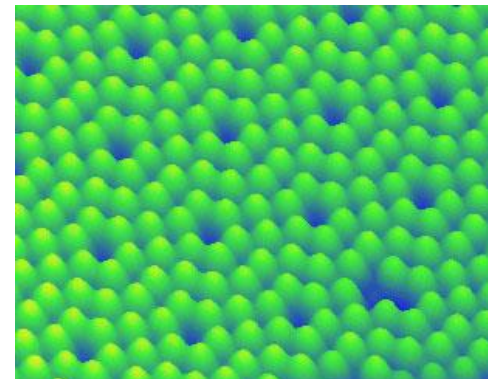
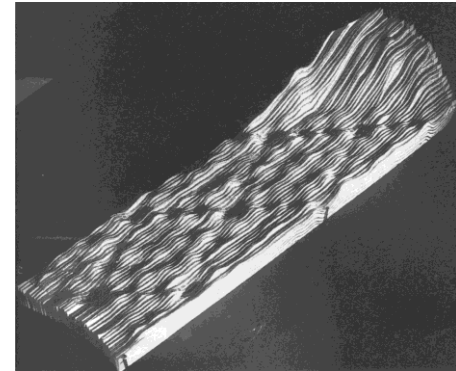
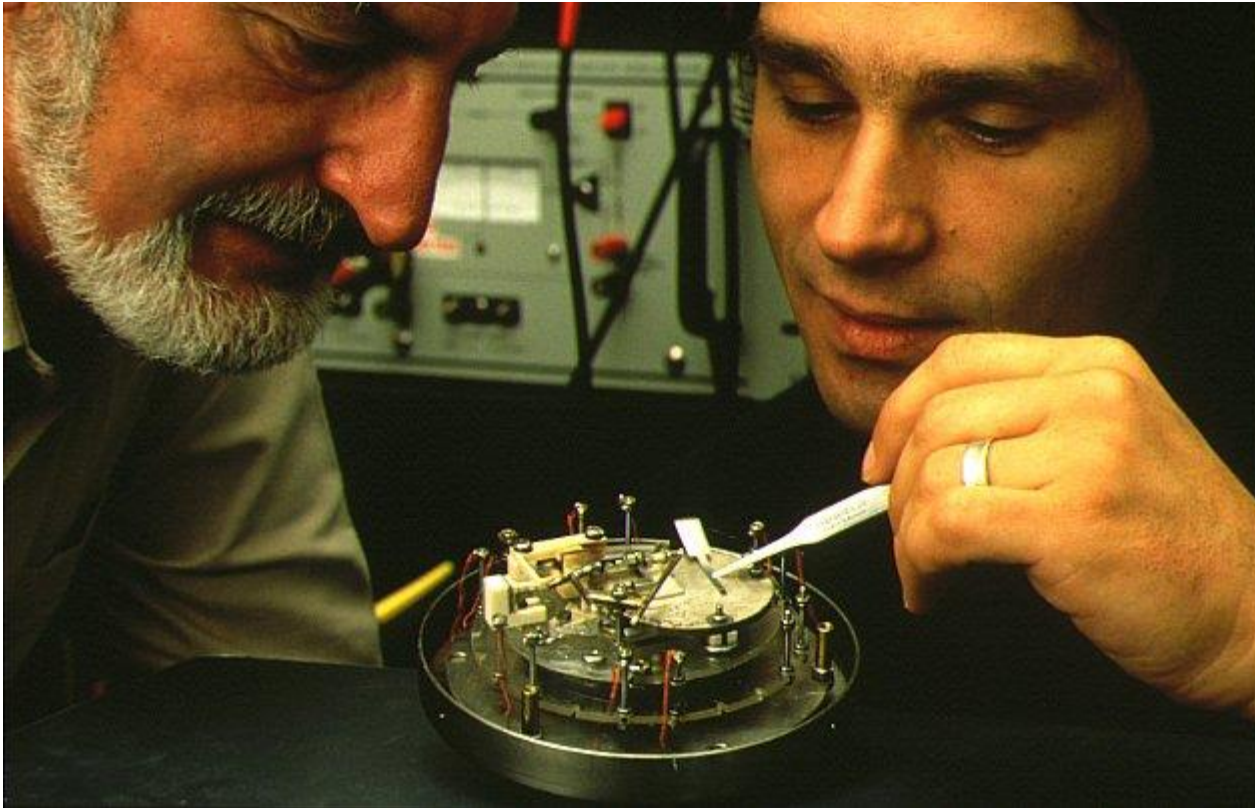
Konkrétní příklady z minulosti:





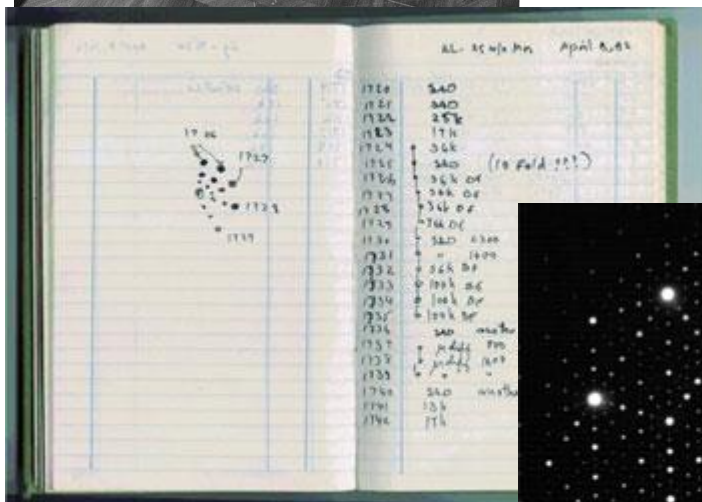
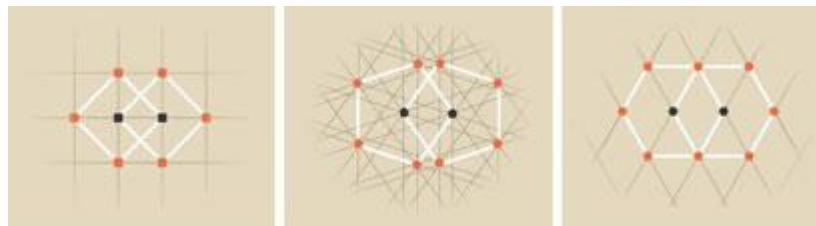
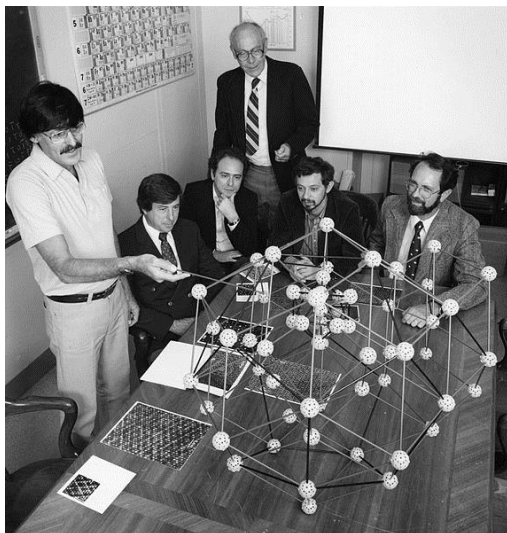
# Rastrovací tunelovací mikroskopie

G. Binnig, H. Rohrer (Nobelova cena 1986)

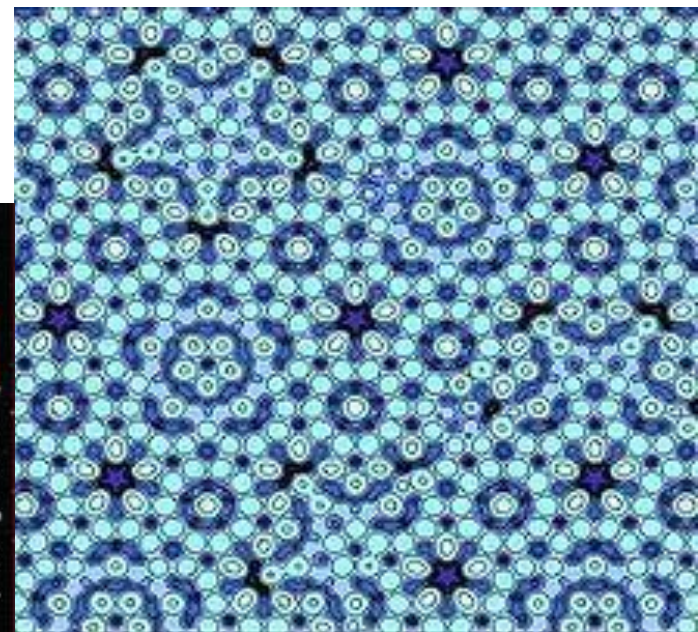
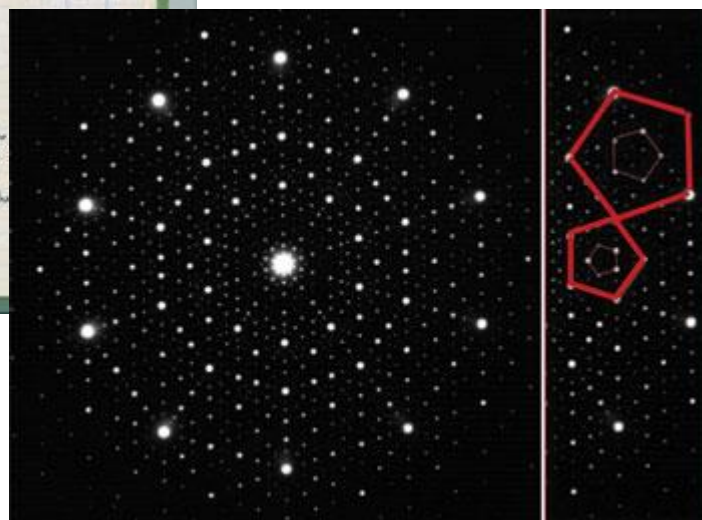


# Dan Schechtman

Nobelova cena za chemii 2011



[Linus Pauling](#) is noted saying "There is no such thing as quasicrystals, only quasi-scientists."



[http://en.wikipedia.org/wiki/Dan\\_Shechtman](http://en.wikipedia.org/wiki/Dan_Shechtman)

<http://www.rsc.org/chemistryworld/Issues/2011/November/QuasicrystalsScoopPrize.asp>

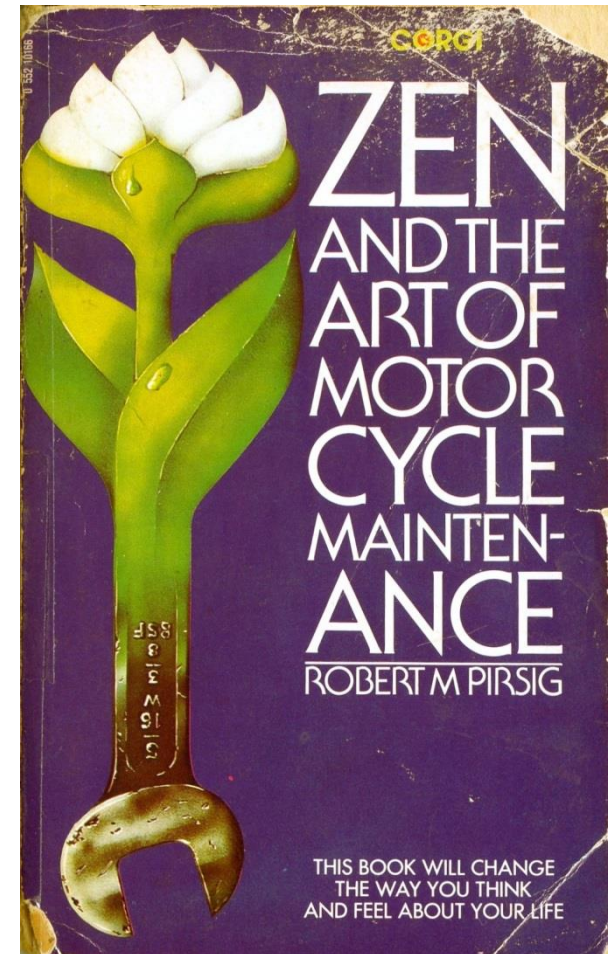
Z pohledu nás všech

Co se tedy z hodnocení naučíme



# Quality

- People differ about Quality not because Quality is different, but because people are different in terms of experience.
- In a sense, it's the student's choice of Quality that defines *him*.



# Hodnocení je nejvíc užitečné pro hodnocené

(a to dokonce i v případě, že se na výsledcích neshodneme nebo že se výsledky nedozvíme)