

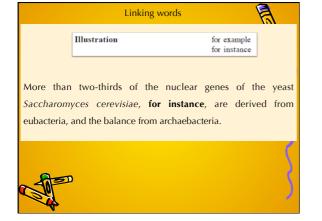
Scientific Writing in English 一英语科研论文写作一 Volunteers for Note Taking (Chinese/English) compiled version to: 赵竹轩 zhaozhuxuan@ucas.ac.cn & 吕平平 pplv10@126.com



SUMMARY DO USE in academic writing: * use appropriate linking words * use identical/similar phrases/words in subsequent sentences * use as few words as possible, but as many as necessary to achieve: CLARITY, LOGIC, PRECISION! Scientific Writing in English — 英语科研论文写作— OVERVIEW - Module 2

Unit 1: Approach to Academic Writing

1. Audience
2. Purpose and Strategy
3. Organization
4. Style
Language Focus: The Vocabulary Shift
Language Focus: Formal Grammar Style
5. Flow
Language Focus: Linking Words
Language Focus: Punctuation
Language Focus: this + Summary Word



	Linking words		A
	Illustration	for example for instance	
		ior instance	
	e, more than two-thirds of th		
	aromyces cerevisiae are derive from archaebacteria.	ed from eubacte	eria, and
			-
)		
4			
	Linking words	(<u>A</u>
	Illustration	for example	
		for instance	
Take, for in	stance, the pressure of a gas –	- a cooperative	property
of large nu	imbers of particles that is no		
behaviour o	f one particle alone.		
ASI)		_ {
A			
	Linking words		A
	Illustration	for example	
	ATTOOLI ACTOR	for example for instance	
	ways, gene transfers between		
	ephone use. Some people on	ly call their far	mily and
friends, for i	instance.		
2			

	Linking words		A
	Intensification	on the contrary as a matter of fact	
		in fact	
Selection	therefore favors the evolution o	f cheats, which a	lthough
	e to the group, may act as the se os, in our experimental p		
	im away from the group.		
- Sil			/
T			
			3
	Linking words		Ħ
	Intensification	on the contrary as a matter of fact in fact	
	therefore favors the evolution of e to the group, may act as the se		
	os. In fact, in our experimental o swim away from the group.	populations the o	cheats
are usion	TO		(
	لاي		
V			
			3
	Linking words		M
original m	anuscript draft:		
As shown	n in Fig. 4, the control flies	gradually incre	ased the
	of food taken in, suggesting with increasing length of state		
mutant fli	es starved for less than 12 ho		
levels of fo	ood intake.		
A -	מ		

		Linking	words	A
	Contra	while whereas	in contrast	unlike
			on the other hand	
			conversely	
	OTE:	, consider	16	
-> 'o	n the c	ontrary' CANNOT be	e used for contrast!	
	Inte	ensification	on the contrar	
			fact in fact	
				_
		Linking	words	A
	ſ	Intensification	on the cont	
			as a matter fact in fact	of
	L		ın ract	
Exan	nple:			
			ear from the adoption rary, a comprehens	
smol	ke-free	law is likely to be e	extremely popular in	China, even
ano	116 31110	KC13		
	ΨĮ.		Source: China Da	ily, October 20 2015
	4			
		Linkir	ng words	A
				""
Exan	nple:			
		in Fin 4 d	di 1	
			rol flies gradually ir ggesting that their h	
			of starvation. In con	
			urs maintained the sa	me levels of
food	intake.			
2	10			

Summary	
Use the (correct) Linking Words, and use them often,	
to ensure good Flow of your ideas! TABLE 1. Linking Words and Phrases	
Sentence Phrase Subordinators Connectors Linkers	
Addition furthermore in addition to in addition	
moreover Adversative although however despite even though nevertheless in spite of	
despite the fact that Cause and because therefore because of	
Effect since as a result due to consequently as a result of hence	-
thus* Clarification in other words that is	
i.e. in contrast unlike whereas however	-
on the other hand conversely	
Illustration for example for instance Intensification on the contrary	-
as a matter of fact in fact	
Do NOT use And/But/Though at sentence beginnings!	
Text A.	
1. It has long been documented that individuals in an organization	
may voluntarily carry out tasks that are not part of their regular job duties. 2. For example, individuals may go above and beyond the	
call of duty to help coworkers, prevent problems or volunteer to stay	
late when not expected to do so. 3. This behavior is intended to help	
others in the organization or the organization itself and is often referred to as organizational citizenship behavior (OCB).	
4. <u>However, while/whilst</u> it is recognized that OCB is important for	
an organization to effectively function, there is debate among	
researchers as to how OCB can be encouraged and rewarded. 5. This debate is further complicated when considering the role of	
OCB in multinational corporations pursuing global diversity. 6. Most	
OCB research has focused on Western cultures; however, it is not	
clear whether these research findings can be extended to other cultures, thus/therefore suggesting a need to investigate OCB as it	
exists in other cultures, particularly those described as "collectivist."	
V	
<u>a</u>	
Text B.	
1. Shape Memory Alloys (SMA) are a group of metallic materials that can return to some previously defined shape or size when	
subjected to the appropriate temperature. 2. When some SMA are	
cold they can be deformed at a low temperature; however, when	
the material is heated above this temperature it undergoes a change in crystal structure, thus causing it to return to its original shape. 3.	
Some materials exhibit shape memory only when heated, while/	
whereas others undergo a shape change both when heated and	
when cooled. 4.While/Whilst many alloys are known to have the ability to	
"remember" their shape, only some may actually find widespread	
commercial use. 5. Of particular interest are those that can recover	
substantial amounts of strain or that generate significant force upon changing shape. 6. For instance/For example, one common nickel	
and titanium SMA, Nitinol, has this ability and is being used in	
surgical implants, clamps, miniature valves and switches, and other	
dovicos	

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	OVERVIEW - Module 2	-1111
	Unit 1: Approach to Academic Writing	4
	1. Audience	
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	Language Focus: Formal Grammar Style 5. Flow	<u> </u>
	Language Focus: Linking Words	\ \ <u>\</u>
	Language Focus: Punctuation Language Focus: this + Summary Word	
		, J
	A.	
		(3)
	Flow	M
		W
		1
Pui	nctuation: full stops, comma, semicolon, colon, dash	es
	. , , , , , , , , , , , , , , , , , , ,	
	-> use them appropriately	
		\
"		
	Flow	a
F. 1		<i>Inl</i>
Ful	l stops -> .	
* tł	ney do NOT separate your facts forever!	
	istead, they help your reader breathing regularly!	
	ey give you the opportunity to introduce a sentence	
C	onnector/conjunction	
* th	ey help you finish one thought before starting the ne	xt!
* ir	academic writing, shorter sentences are better (forge	et your
te	eacher's advice!)	
	-> USE THEM! Generously!	
(2 OSE THEM, GUICIOUSIY.	

Comma -> ,	
* used for clauses (The book, which is rare, cannot be found in the library)	
* used for lists	
Example	
The FIFA president, the head of communications, the FIFA spokes	
person and the FIFA general secretary sit in a car.	
V	<u> </u>
Comma -> ,	
* often used with subordinators (Although, If, If,, whereas)	
-	-
Flow	
Semicolons ;	
* join two completely independent sentences	
* can be used with sentence connectors (; however, ; thus, ; for example,)	
* used to break up longer sentences	
* useful for separating long items in a list	
-> only use them occasionally	

		(2)
	Flow	A
Colons -> :		
* used to introduc	ce a list	
* mixed use of co	olon, comma, semicolons	
* overuse to be a	voided when formulating a clea	ar scientific thought
		(
)
A=D		· · · · · · · · · · · · · · · · · · ·
4		<u> </u>
		(3)
	Flow	M
Colons -> :		
There are four ma	ain causes of airport congestior	: bad weather.
	e, runway closures, and equipm	
excessive volume	e, ranway crosures, and equipm	iene odtages.
	compare with:	
	ain causes of airport congestion	
	nay ground planes; too many p	
	ve or depart within a short perio	od; runways may be
closed; and equip	pment may be out of service.	
)
4		
	Bad Example	A
They will never v	win a beauty contest, naked m	nole rats may hold a
lesson or two for	humans, with two studies in 2	013 finding clues to
·	nts can live 30 years, cancer-fi	
	at the ribosome that excels at	
	med proteins can clog up the	
	g; another could be a super nat seems to protect against can	
	is compound down as fast as	
	spaces between cells and may	
	er and forming tumors.	
words: 112	2 commas:6 full stops: 1	semicolons: 3

1 sentence!

Im	proved version	(3)	
They will never win a beaut	ty contest , but naked mole		
a lesson or two for human why these rodents can live	30 years. Intriguingly, they	not only live	
long lives, they also rema might be that their ribosom This is important for overal	es excel at producing error	-free proteins.	
up the body's systems, resulthe presence of a supersize	ulting in accelerated aging	. In addition,	
protect them against cance rats do not break this comp	r. Importantly, it seems tha	at naked mole	
consequence, it builds up in keep the cells from clumpin	n the spaces between cells,	where it may	
words: 125 commas:6	full stops: 8 words per s		
	sentences	entence. ~15	
•			
TASK16: Focus: comma and	I semicolon use	[U]	
Edit the following passages	by adding semicolons or c	ommas where	
necessary.			
1. Although most major co accounts as well as Interne			
concerned about potential a of these media.	abuse, and monitor their e	mployees' use	
2. In fact, more than 75% of			
monitor their employees' us spot-checking or constant so		cess, either by	
		/	
4			
		a	
3. Businesses have many re use; for example, they may			
company information, or the from sexual harassment(,)			
jokes.			
4. In addition, there may be	concerns about productivi	ty.	

5. Recent studies have shown that nearly 86% of employees use email and cruise the Web for personal reasons, thus leading many companies to ban unproductive e-mail(,) such as jokes, and to restrict Web access.

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Language Focus: Punctuation Language Focus: this + Summary Word	
2 anguage rocast and a summary viola	
A.	
(3	
Flow	
THIS/THESE + Summary word	
* phrase that summarizes what has already been said in sentence	
before	
Example 1:	
ESL lecturers know that students need to understand the differences	_
between formal and informal language. However, <i>this</i>	
understanding cannot be acquired quickly.	
Asi	
Flow	
THIS/THESE + Summary word	
* phrase that summarizes what has already been said in sentence	
before	
Example 2:	
The number of applications has increased steadily, while the	
number of places has remained constant. <i>This situation</i> has resulted	
in intense competition for admission.	

Flow	
THIS/THESE + Summary word	
* THIS sometimes used 'unsupported' by noun	
BEWARE: only do so if it is absolutely clear what THIS refers to!	
-> ALWAYS support with suitable summary noun	
5	
4	
3	1
Flow THIS/THESE + Summary word	
· ·	
Example 1 - Original:	
Moreover, the sugar residues may be long or short, branched or	
linear, and linked in various ways, creating significant	
variability in glycan structures. The large amount of variability presents a challenging obstacle to researchers attempting to	-
elucidate structural, as well as compositional, information on	
glycans.	
-	
a	1
Flow	
THIS/THESE + Summary word	
Example 1 – improved version	
Moreover, the sugar residues may be long or short, branched or	
linear, and linked in various ways, creating significant	
variability in glycan structures. This large amount of variability	
presents a challenging obstacle to researchers attempting to	
elucidate structural, as well as compositional, information on glycans.	
6	

Flow	<u></u>
THIS/THESE + Summary word	
Example 2 - Original	· · · · · · · · · · · · · · · · · · ·
Most of the currently available tools for identification of glycan	<u> </u>
structures are able to perform composition analysis of glycan,	<u> </u>
but cannot provide sequence information of the glycans studied. In addition, existing tools usually present all candidate	
structures since the tools cannot distinguish the different glycan	
isoforms under same molecular weight.	
V	
-	
-	
Flow	
Flow THIS/THESE + Summary word	
THIS/THESE + Summary word Example 2 Most of the currently available tools for identification of glycan	
THIS/THESE + Summary word Example 2 Most of the <u>currently available tools</u> for identification of glycan structures are able to perform composition analysis of glycan, but cannot provide sequence information of the glycans	
THIS/THESE + Summary word Example 2 Most of the <u>currently available tools</u> for identification of glycan structures are able to perform composition analysis of glycan,	
THIS/THESE + Summary word Example 2 Most of the <u>currently available tools</u> for identification of glycan structures are able to perform composition analysis of glycan, but cannot provide sequence information of the glycans studied. In addition, <u>these tools</u> usually present all candidate	
THIS/THESE + Summary word Example 2 Most of the <u>currently available tools</u> for identification of glycan structures are able to perform composition analysis of glycan, but cannot provide sequence information of the glycans studied. In addition, <u>these tools</u> usually present all candidate structures, since the tools cannot distinguish the different	